NACOmatic

Effective: 17-December-2009 Expires: 14-January-2010

Your Ad Here ~80,000 Page views/month

Contact:

Doug Ranz 248-318-0011 NACOmatic@hotmail.com

Warranty

I make absolutely no warranty nor guarantee whatsoever about the accuracy, availability, applicability and/or correctness of any of the information in this document.

The official, original NACO documents are available for your downloading pleasure from: http://naco.faa.gov/index.asp?xml=naco/onlineproducts

Copyright

This compilation is protected by US copyright laws and international copyright treaties.

Limitations

The sale, hosting and/or distribution of this document in any and all forms, is prohibited.

Release from Liability

All users of this compilation must agree to be legally bound hereby, that Douglas R. Ranz ("Released Party") SHALL NOT BE LIABLE FOR MY DEATH OR INJURY TO MY PERSON, OR FOR ANY LOSS FOR DAMAGE TO MY PROPERTY OR REPUTATION caused in any manner whatsoever, whether attributable to the negligence of the Released Party, or for any other reason, occurring during the time that I am operating an aircraft.

I do hereby waive any right of action against the Released Party from any and all causes or claims that I may have against them from the beginning of time. I further agree not to sue on any such cause or claim. This agreement shall not release liability for gross negligence or willful misconduct of the Released Party. I agree to indemnify and hold the Released Party harmless for any losses, judgments, damages or fees he may incur, including but not limited to attorneys fees, arising out any lawsuit related to the planning, flight and/or enforcement of or legal challenge to this agreement. It is my intention that this agreement be interpreted and enforced to the maximum extent allowed by Michigan law.

Kindle-DX Index; by AptID Use "Menu", then "Goto Page" DC Min Alt#3 -4 DC Min TO#3 -8 DCA -IAD -23 45

17 DEC 2009 to 14 JAN 2010

ALTERNATE MINS



RNAV (GPS) Rwy 4 RNAV (GPS) Rwy 15

RNAV (GPS) Rwy 22

RNAV (GPS) Rwv 33

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS ABERDEEN PROVING GROUND, MD PHILLIPS AAF (KAPG)
ABINGDON, VA VIRGINIA HIGHLANDSLOC Rwy 24 RNAV (GPS) Rwy 6 RNAV (GPS) Rwy 24 VOR/DME-B NA when local weather not available. Category C, 800-21/4, Category D, 800-21/2.
ANNAPOLIS, MD LEERNAV (GPS)-A NA when local weather not available.
BALTIMORE, MD BALTIMORE-WASHINGTON INTL THURGOOD MARSHALL ILS or LOC Rwy 15L¹ ILS or LOC Rwy 28² VOR Rwy 10³
¹ ILS, LOC, Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾. ² ILS, Categories A,B,C, 700-2; Category D 700-2¼; LOC, Category D, 800-2¼. ³ Categories A,B,1100-2; Category C,D 1100-3.
MARTINSTATEILS or LOC Rwy 33 ¹²³ LOC Rwy 15 ² VOR/DME or TACAN Z Rwy 15 ⁴ ILS, Category D, 700-2. ² NA when control tower closed. ³ NA when local weather not available. ⁴ Categories A,B, 900-2; Category C, 900-2½; Category D 900-2¾.

BLACKSBURG. VA

VIRGINIA TECH/MONTGOMERY

NA when local weather not available.

EXECUTIVE RNAV (GPS) Rwy 12

RNAV (GPS) Rwy 30

NAME ALTERNATE MINIMUMS CHARLOTTESVILLE, VA CHARLOTTESVILLE- ALBEMARLEILS or LOC Rwy 3 ¹² RNAV (GPS) Rwy 21 ³⁴ RNAV (GPS) Z Rwy 21 ³⁴ RNAV (GPS) Z Rwy 21 ³⁴		
¹ NA when control tower closed. ² ILS, Categories A,B, 800-2; Category C, 800-2½; Category D, 1000-3. LOC, Category C, 800-2½; Category D, 1000-3. ³ NA when local weather not available. ⁴ Category D, 1000-3. ⁵ Category C, 800-2½; Category D, 1000-3.		
COLLEGE PARK, MD COLLEGE PARKRNAV (GPS) Rwy 15 NA when local weather not available.		
CULPEPER, VA CULPEPER RGNLLOC Rwy 4¹ RNAV (GPS) Rwy 4² RNAV (GPS) Rwy 22² VOR-A²		
¹ NA when FBO closed. ² NA when local weather not available.		
DANVILLE, VA DANVILLE RGNLVOR Rwy 20 Category C, 800-21/2; Category D, 800-21/2.		
DUBLIN, VA NEW RIVER VALLEYVOR or GPS-A Category D, 800-21/4.		
EASTON, MD EASTON/ NEWNAM FIELD ILS or LOC/DME Rwy 41		

NA when local weather not available.

¹ILS.LOC. NA when control tower closed.





33	
NAME ALTERNATE MINIMUMS EMPORIA, VA EMPORIA- GREENSVILLE RGNL RNAV (GPS) Rwy 15 NA when local weather not available.	NAME ALTERNATE MINIMUMS LEONARDTOWN, MD ST. MARY'S COUNTY RGNLRNAV (GPS) Rwy 11 RNAV (GPS) Rwy 29
	NA when local weather not available.
FELKER AAF (KFAF) FORT EUSTIS, VAORIG 08297 NDB Rwy 14 COPTER NDB Rwy 14 RNAV (GPS) Rwy 14	LOUISA, VA LOUISA COUNTY/ FREEMAN FIELD
COPTER RNAV (GPS) Rwy 14 NA when control tower closed.	LYNCHBURG, VA
FREDERICK, MD FREDERICK MUNIRNAV (GPS) Rwy 5 ¹² RNAV (GPS) Y Rwy 23 ¹ RNAV (GPS) Z Rwy 23 ³ Category D, 800-2½. NA when local weather not available.	LYNCHBURG RGNL/PRESTON GLENN FIELDILS or LOC Rwy 4 ¹² RNAV (GPS) Rwy 4 ³ RNAV (GPS) Rwy 22 ³ VOR/DME Rwy 22 ⁴ VOR Rwy 4 ³ 1ILS,LOC, NA when control tower closed.
3Categories A,B,C,D, 800-2½. GAITHERSBURG,MD MONTGOMERY COUNTY AIRPARK	² ILS,Categories A,B, 800-2;Category C,900-2½, Category D, 900-2¾. LOC,Category C,900-2½, Category D, 900-2¾. ³ Category C, 900-2½; Category D, 900-2¾. ⁴ Categories A,B, 900-2; Category C, 900-2½, Category D, 900-2¾.
GALAX/HILLSVILLE, VA TWIN COUNTYRNAV (GPS) Rwy 1 RNAV (GPS) Rwy 19 NA when local weather not available.	MANASSAS, VA MANASSAS RGNL/HARRY P DAVIS FIELDILS or LOC Rwy 16L,700-2 RNAV (GPS) Rwy 16L NA when control tower closed.
GEORGETOWN, DE SUSSEX COUNTYRNAV (GPS) Rwy 4 RNAV (GPS) Rwy 22 NA when local weather not available.	MARION/WYTHEVILLE, VA MOUNTAIN EMPIRE RNAV (GPS) Rwy 26 NA when local weather not available. Category C, 800-21/4.
HAGERSTOWN, MD HAGERSTOWN RGNL-RICHARD A. HENSON FIELDILS or LOC Rwy 91 ILS or LOC Rwy 271 RNAV (GPS) Rwy 9 RNAV (GPS) Rwy 27	MARTINSVILLE, VA BLUE RIDGERNAV (GPS) Rwy 30 NA when local weather not available. Categories A,B, 1000-2; Categories C,D, 1000-3.
VOR Rwy 9 NA when local weather not available. ¹NA when control tower closed.	MELFA, VA ACCOMACK COUNTY RNAV (GPS) Rwy 3 RNAV (GPS) Rwy 21 NA when local weather not available.
HOT SPRINGS, VA INGALLS FIELDRNAV (GPS) Rwy 7 NA when local weather not available. Categories, A, B, 1000-2; Category C, 1000-2%, Category D, 1000-3.	MIDDLETOWN, DE SUMMIT
LEESBURG, VA	

LEESBURG EXECUTIVE .. RNAV (GPS) Rwy 17

LPV, Category D, 700-2.





NAME	ALTERNATE MINIMUMS
NEWPORT NEV	VS, VA
NEWPORT NEW	S/WILLIAMSBURG
INTL	ILS or LOC Rwy 712
	ILS or LOC Rwy 251
	LOC/DME Rwy 2012
	RNAV (GPS) Rwy 7 ²
	RNAV (GPS) Rwy 20 ²
¹ NA when contro	ol tower closed

OCEAN CITY, MD

OCEAN CITY MUNI RNAV (GPS) Rwy 21 RNAV (GPS) Rwy 3212 VOR-A3

¹NA when local weather not available.

²NA when local weather not available.

²Category D, 800-21/4.

3Categories A, B, 900-2; Category C, 900-21/2; Category D, 900-23/4.

PETERSBURG, VA

DINWIDDIE COUNTY RNAV (GPS) Rwy 5 RNAV (GPS) Rwy 23 VOR Rwy 23

NA when local weather not available.

RICHLANDS, VA

TAZEWELL COUNTY LOC/DME Rwy 25 RNAV (GPS) Rwy 25 NA when local weather not available.

RICHMOND, VA RICHMOND INTL ILS or LOC Rwy 16 ILS, Categories A,B, 900-2, Category C, 900-234, Category D, 900-3.

LOC, Categories A,B, 900-2, Category C, 900-234, Category D, 900-3.

RICHMOND/ASHLAND, VA

HANOVER COUNTY MUNI RNAV (GPS) Rwy 16 VOR Rwy 161

NA when local weather not available.

¹Category C, 800-21/4, Category D, 800-21/2.

NAME ALTERNATE MINIMUMS ROANOKE. VA

ROANOKE RGNL/WOODRUM

FIELDILS or LOC Rwv 3312 LDA Rwy 62

VOR/NDB Rwy 333

¹ILS, Categories A,B, 800-2; Category C, 800-21/4; Category D, 800-21/2. LOC, Category C, 800-21/4; Category D, 800-21/2.

²Categories A,B, 1600-2; Categories C,D, 1600-3.

3Categories A,B, 1400-2; Categories C,D, 1400-3.

SALISBURY, MD

SALISBURY-OCEAN CITY WICOMICO RGNL ILS or LOC Rwy 32 RNAV (GPS) Rwy 32 VOR Rwy 231

NA when local weather not available. 1Categories A, B, 1100-2; Categories C, D, 1100-3.

STAUNTON-WAYNESBORO-HARRISONBURG. VA

SHENANDOAH VALLEY

RGNLILS or LOC Rwy 51 NDB Rwy 5 RNAV (GPS) Rwy 5

RNAV (GPS) Rwv 23

NA when local weather not available. ¹ILS, Category D, 700-2.

SUFFOLK, VA

SUFFOLK EXECUTIVE RNAV (GPS) Rwy 4 RNAV (GPS) Rwv 7

NA when local weather not available.

WALLOPS ISLAND, VA

WALLOPS FLIGHT

FACILITY VOR/DME or TACAN Rwy 10

Categories A,B, 900-2; Category C, 900-21/2; Category D, 900-234.

ALTERNATE MINS

WASHINGTON, DC

WASHINGTON

DULLES INTLILS or LOC/DME Rwy 1C1 ILS or LOC/DME Rwy 1L1

ILS or LOC/DME Rwy 121 ILS or LOC/DME Rwy 19C1

ILS or LOC/DME Rwy 19R1 ILS or LOC Rwy 1R1

ILS or LOC Rwy 19L1

RNAV (GPS) Y Rwy 19R2

¹ILS, Categories A, B, C, D, 700-2.

²Category D, 800-21/4.

RONALD REAGAN

WASHINGTON NATIONAL ILS Rwy 11 LDA/DME Rwy 192

RNAV (GPS) RWY 333

ROSSLYN LDA Rwy 19, 1100-3

VOR/DME or GPS Rwy 154 VOR/DME or GPS Rwy 195

VOR Rwy 12 ¹ILS, Categories A, B,C, 700-2; Category D,

700-21/2. LOC, Category D, 800-21/4. ²Category D, 800-21/4.

3Categories A,B,C,D, 800-21/2.

⁴Categories A,B, 1000-2;Category C, 1000-23/4; Category D, 1000-3.

⁵Categories A,B, 1000-2; Categories C,D, 1000-3.

WEST POINT, VA

MIDDLE

PENINSULA RGNL RNAV (GPS) Rwv 10 VOR-A

NA when local weather not available.

WILMINGTON, DE

NEW CASTLE ILS or LOC Rwy 112 RNAV (GPS) Rwy 12 RNAV (GPS) Rwy 92

RNAV (GPS) Rwy 192 RNAV (GPS) Rwy 272 VOR Rwy 273

¹NA when contol tower closed.

²NA when local weather not available.

3Category D, 800-21/4.

WINCHESTER, VA

WINCHESTER RGNL RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32 VOR/DME-A

NA when local weather not available.

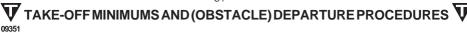
WISE, VA

LONESOME PINE RNAV (GPS) Rwy 612 RNAV (GPS) Rwy 243

¹NA when local weather not available.

²Category D, 800-21/4.

³Category C, 800-21/4; Category D, 900-23/4.



INSTRUMENT APPROACH PROCEDURE CHARTS

FIFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in

avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSI

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military takeoff minima, refer to appropriate service directives.

ΝΔΜΕ TAKE-OFF MINIMUMS

ABINGDON, VA

VIRGINIA HIGHI ANDS

TAKE-OFF MINIMUMS: Rwys 6, 24, 300-1 DEPARTURE PROCEDURE: Climb straight ahead to 5000 when departing NE, or 4000 when departing SW. before proceeding on course.

ANDREWS AFB/NAF (KADW)

CAMP SPRINGS, MD. 09127 TAKE-OFF OBSTACLES: Rwv 1L, trees 2972' to 3085' from DER, 765' to 906' right of centerline, 93' AGL/355' MSL, Rwv 1R, trees 1512' from DER, 856' right of centerline, 74' AGL/336' MSL: trees 2254' from DER. 645' left of centerline, 93' AGL/355' MSL; trees 2629' from DER, 1095' left of centerline, 93' AGL/355' MSL: trees 2882' from DER, 364' left of centerline, 104' AGL/ 362'MSL, Rwv 19L, terrain 267' from DER, 580' left of centerline, 261'MSL; trees 2650' to 2874' from DER, 946' to 1113' right of centerline, 91' AGL/334' MSL.

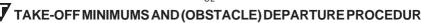
Rwv 19R. trees 2650' to 2873' from DER, 887' to 1054' left of centerline, 91' AGL/334' MSL: tower 4630' from DER, 1664' right of centerline, 108' AGL/377' MSL.

NAME TAKE-OFF MINIMUMS ANNAPOLIS, MD

TAKE-OFF MINIMUMS: Rwv 30, 300-1 or std. with a min. climb of 410' per NM to 400. DEPARTURE PROCEDURE: Rwv 12. climb runwav

heading to 700 before proceeding on course. Rwy 30, climb runway heading to 1000 before proceeding right on course. Climb runway heading to 700 before proceeding left on course.

NOTE: Rwv 12, cross departure end of runway at or above 35' AGL/66' MSL. Rwv 30, trees, 1433' from departure end of runway, 85' left of centerline. 100' AGL/139' MSL. Cross departure end of runway at or above 35' AGL/66' MSL.



BAI TIMORE, MD BAI TIMORE/WASHINGTON INTI THURGOOD

MARSHALL TAKE-OFF MINIMUMS: Rwy 4, 300-11/2 or std. w/min.

climb of 210' per NM to 500. DEPARTURE PROCEDURE: Rwv 4, climb heading

044° to 800 before proceeding on course. Rwy 28, climb heading 285° to 900 before proceeding on course Rwy 33L, climb heading 320° to 2000 before proceeding on course, Rwy 33R, climb heading 005° to 1900 before proceeding on course

NOTE: Rwv 4, rod on lighted pole 1921 from departure end of runway, 329' right of centerline, 58' AGL/197' MSL. Light on pole 2177' from departure end of runway. 294' left of centerline, 58' AGL/197' MSL. Light on pole 1755' from departure end of runway 482' right of centerline, 47' AGL/186' MSL. Tree 2370' from departure end of runway, 481' right of centerline, 60' AGL/199' MSL. Tank 6635' from departure end of runway, 2265' right of centerline, 122' AGL/316' MSL. Tank 7534' from departure end of runway 2274' left of centerline, 173' AGL/338' MSL. Rwv 10, building 52' from departure end of runway, 319' left of centerline, 13' AGL/133' MSL. Rwv 15L, multiple trees beginning 648' from departure end of runway, 617' left of centerline, up to 68' AGL/167' MSL. Light on pole 921' from departure end of runway, 618' left of centerline, 62' AGL/161' MSL. Rwv 15R, multiple trees beginning 1144' from departure end of runway, 740' right of centerline, up to 53' AGL/ 172' MSL. Rwy 22, terrain beginning 111' from departure end of runway, 29' right of centerline, up to 171' AGL. Terrain 365' from departure end of runway. 137' left of centerline, 158' MSL, Rwv 28, tree 1392' from departure end of runway, 736' left of centerline, 77' AGL/176' MSL. Rwy 33L, building 4693' from departure end of runway, 874' right of centerline, 127' AGL/266' MSL. Tree 2250' from departure end of runway, 843' right of centerline, 66' AGL/205' MSL, Microwave antenna on building, 4725' from departure end of runway. 907' right of centerline, 126' AGL/265' MSL. Fence 203' from departure end of runway, 517' right of centerline, 9' AGL/140' MSL. Rwv 33R, numerous trees beginning 2925' from departure end of runway, 321' left of centerline, up to 70' AGL/289' MSL. Numerous trees beginning 975' from departure end of runway, 116' right of centerline, up to 63' AGL/262' MSL. Light on pole 2384' from departure end of runway, 837' right of centerline, 55' AGL/254' MSL, Building 998' from departure end of runway, 654' left of centerline, 24' AGL/ 183' MSL. Light on pole 3869' from departure end of runway, 603' left of centerline, 72' AGL/251' MSL, Light on pole 2736' from departure end of runway, 247' right of centerline, 17' AGL/216' MSL, Pole 3781' from departure end of runway, 370' right of centerline, 40' AGL/242' MSL. Signal 2453' from departure end of

runway, 904' left of centerline, 45' AGL/204' MSL.

BALTIMORE, MD (CON'T) **MARTIN STATE**

TAKE-OFF MINIMUMS: Rwv 15, 800-2 or std. with a min, climb of 300' per NM to 1000, Rwy 33, 1300-2 or std, with a min, climb of 340' per NM to 1700'. DEPARTURE PROCEDURE: Rwv 15, climb runway

heading to 1000 before proceeding on course; or when directed by ATC, climbing right turn heading 190° to 1000 before proceeding on course.

NOTE: Rwv 15, trees 1960' from departure end of runway 684' left of centerline, 78' AGL/88' MSL, trees 3395' from departure end of runway, 585' left of centerline, 92' AGL/102' MSL. Rwv 33, pole 1553' from departure end of runway, across centerline, 68' AGL/90' MSL. Trees 2342' from departure end of runway, across

BLACKSBURG. VA

centerline 86' AGL/108' MSL.

to 4100 before proceeding on course.

VIRGINIA TECH/MONTGOMERY EXECUTIVE (BCB)

AMDT 4 08073 (FAA)

TAKE-OFF MINIMUMS: Rwv 12, 400-11/4 or std. w/min.

climb of 563' per NM to 2700 DEPARTURE PROCEDURE: Rwy 12, climbing right turn direct PSK VORTAC to 3500 before proceeding on course, Rwv 30, climbing left turn direct PSK VORTAC

NOTE: Rwv 12, bushes and trees beginning 275' from departure end of runway, 154' left of centerline, up to 100' AGL/2239' MSL. Trees beginning 5108' from departure end of runway, 1363' left of centerline, up to 100' AGL/ 2499' MSL. Trees beginning 3165' from departure end of runway, 1324' right of centerline up to 100' AGL/2279' MSL. Rwy 30, trees beginning 90' from departure end of runway, 461' left of centerline, up to 46' AGL/2140' MSL. Fence and obstruction light pole beginning 546' from departure end of runway, 161' left of centerline, up to 12' AGL/2139 MSL, Vehicle on road beginning 567 from departure end of runway, 310' left of centerline, 24' AGL/ 2137' MSL, Trees beginning 2080' from departure end of runway, 788' left of centerline, up to 100' AGL/2201' MSL. Fence, 861' from departure end of runway, 52' right of centerline, up to 12' AGL/2135' MSL, Trees beginning 539' from departure end of runway, 326' right of centerline, up to 40' AGL/2153' MSL, Trees beginning 1328' from departure end of runway, 117' right of centerline, up to 100' AGL/2182' MSL terrain beginning 330' from departure end of runway, 366' right of centerline, up to 2138' MSL pole and antenna beginning 1149' from departure end of runway, 391' right

of centerline, up to 40' AGL/2151' MSL.



BLACKSTONE, VA ALLEN C PERKINSON BLACKSTONE AAF

TAKE-OFF MINIMUMS: Rwv 1, 1000-2 or std. with a

min. climb of 280' per NM to 1700. Rwv 4. 1000-2 or std. with a min_climb of 220' per NM to 1700 Rwv 19, NA DEPARTURE PROCEDURE: Rwv 1, climb heading 010° to 1700 before proceeding on course. Rwv 4. climb

heading 039° to 1700 before proceeding on course. Rwy 22, climb heading 208° to 900 before proceeding on course Rwy 22, climb heading 208° to 900 before proceeding on course.

NOTE: Rwv 4.50' AGL tree. 150' from departure end of runway, 450' right of centerline, Rwy 22, 66' AGL tree. 175' from departure end of runway, 450' left of centerline. Do not fly over ammunition dump 1 1 NM SW of Rwy 4

BRIDGEWATER. VA

BRIDGEWATER AIRPARK

TAKE-OFF MINIMUMS: Rwv 15, 700-1, Rwv 33, 700-2, DEPARTURE PROCEDURE: All aircraft climb in VBW holding pattern (SW, right turns, 035° inbound) to 4000 before proceeding on course.

BROOKNEAL.VA

BROOKNEAL/CAMPBELL COUNTY

NOTE: Rwv 6, multiple trees beginning 569' from departure end of runway, 252' right of centerline, up to 100' AGL/689' MSL, Rwv 24, multiple trees beginning 334' from departure end of runway, 286' right of centerline, up to 100' AGL/679' MSL. Multiple trees beginning 1377' from departure end of runway, 850' left of centerline, up to 100' AGL/719' MSL.

CAMBRIDGE. MD

CAMBRIDGE-DORCHESTER TAKE-OFF MINIMUMS: Rwv 34. 300-1.

CAMP PEARY LNDG STRIP (KW94)

WILLIAMSBURG, VA 08213

TAKE-OFF OBSTACLES: Rwv 5: trees and multiple transmission lines 120' from DER, 184' left of centerline up to 95' AGL/126' MSL. Trees and multiple transmission lines 162' from DER, 257' right of centerline up to 100' AGL/132' MSL. Rwy 23: trees and multiple transmission lines 1891' from DER, 69' left of centerline up to 95' AGL/136' MSL. Multiple trees and transmission lines 537' from DER, 437' right of centerline up to 110' AGL/151' MSL.

CHARLOTTESVILLE, VA CHARLOTTES/ILLE-ALBEMARLE (CHO)

AMDT 9 09295 (FAA)

TAKE-OFF MINIMUMS: Rwv 3, std. w/min.climb.of 323' ner NM to 1500, or 2200-3 for climb in visual conditions DEPARTURE PROCEDURE: Rwv 3. climb via heading 030° to 1500 then climbing right turn to 4000 direct GVE VORTAC before proceeding on course, or for climb in visual conditions: cross Charlottesville-Albemarle airport at or above 2700 before proceeding on course. Rwv 21. climb via heading 210° to 1400, then climbing left turn to 4000 direct GVE VORTAC before proceeding NOTE: Rwv 3, pole 97' from DER, 476' right of centerline.

27' AGL/627' MSL. Trees beginning 836' from DER, 597' right of centerline, up to 100' AGL/1216' MSL. Tower 2.3 NM from DER, 3443' right of centerline, 107' AGL/1167' MSL. Terrain beginning 2.2 NM from DER. 3183' right of centerline, up to 1116' MSL.

CHASE CITY, VA

CHASE CITY MUNI

NOTE: Rwv 18, trees beginning 191' from departure end of runway, 116' left of centerline, up to 100' AGL/609' MSL. Multiple trees beginning 327' from departure end of runway, 133' right of centerline, up to 100' AGL/599' MSL. Rwv 36, trees beginning 164' from departure end of runway, 154' right of centerline, up to 100' AGL/649' MSL. Trees beginning 470' from departure end of runway, 124' left of centerline, up to 100' AGL/649' MSL.

CHURCHVILLE, MD

HARFORD COUNTY

TAKE-OFF MINIMUMS: Rwv 28, 300-1 or std. with a min, climb of 400' per NM to 600.

NOTE: Rwy 28, 100' terrain/trees 1150' from departure end of runway.

CLARKSVILLE. VA

LAKE COUNTRY RGNL

TAKE-OFF MINIMUMS: Rwy 4, 600-1 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: Rwy 22, climb runway heading to 1900 before turning.

CLINTON, MD

WASHINGTON EXECUTIVE/HYDE FIELD (W32)

ORIG 08045 (FAA)

NOTES: Rwy 5, Vehicle on road beginning 20' from departure end of runway, on centerline, up to 15' AGL/ 261'MSL, Rwv 23. Vehicle on road 23' from departure end of runway, 329' left of centerline, 15' AGL/260' MSL.



COLLEGE PARK, MD COLLEGE PARK (CGS)

AMDT 3B 08157 (FAA)

TAKE-OFF MINIMUMS: Rwv 15, 400-21/2 or std. w/min.

climb of 486' per NM to 600. Rwy 33, 400-21/2 or std. w/ min. climb of 433' per NM to 600. DEPARTURE PROCEDURE: Rwy 15, climb heading

149° to 600 before proceeding on course. Rwv 33, climb heading 329° to 600 before proceeding on course

NOTE: Rwv 15, trees beginning 2799' from departure end of runway, 570' left of centerline, up to 100' AGL/259' MSI Antenna 1 1 NM from departure end of runway

149' left of centerline, 167' AGL/270' MSL. Rwv 33. terrain beginning 1 NM from departure end of runway. 3700' right of centerline to 3700' left of centerline, up to 439' MSL. Building 3811' from departure end of runway.

467' right of centerline 184' AGI /254' MSI Tower 1.9 NM from departure end of runway, 1447' left of centerline, 255' AGL/405' MSL.

CRISFIELD. MD

CRISEIELD MUNI

TAKE-OFF MINIMUMS: Rwvs 6.24. NA-obstacles DEPARTURE PROCEDURE: Rwv 14. climb via heading 142° to 900 before proceeding on course. Rwy 32, climb via heading 322° to 900 before proceeding on course.

CULPEPER. VA

CULPEPER RGNL (CJR)

ORIG 07354 (FAA)

DEPARTURE PROCEDURE: Rwv 22, climb heading 218° to 1000 before turning right.

NOTE: Rwv 4. tree 79' from departure end of runway. 418' left of centerline 86' AGL/337' MSL. Vehicle on road 207' from departure end of runway, 367' left of centerline, 15' AGL/330' MSL, Tree 3396' from departure end of runway, 514' right of centerline, 91' AGL/410'MSL. Rwy 22, tree 128' from departure end of runway, 332' left of centerline, 25' AGL/334' MSL Multiple trees beginning 272' from departure end of runway, 179' right of centerline up to 22' AGL/341' MSL. Pole 1480' from departure end of runway, 68' left of centerline, 27' AGL/356' MSL.

CUMBERLAND, MD

GREATER CUMBERLAND RGNL

TAKE-OFF MINIMUMS: Rwy 5, 1700-2 or std. with a min. climb of 300' per NM to 3400. Rwy 11, 1600-2 or std. with a min. climb of 520' per NM to 3400. Rwy 23, 1200-2 or std. with a min. climb of 660' per NM to 3400. Rwv 29. NA

DEPARTURE PROCEDURE: Rwys 5,11, climb runway heading to 3400 before proceeding on course. Rwy 23, climbing left turn to intercept 177° course from CBE NDB to 3400 before proceeding on course.

DANVILLE, VA

DANVILLE RGNI

TAKE-OFF MINIMUMS: Rwys 2,31, 300-1 or std. with a min, climb of 240' per NM to 1000.

DAVISON AAF (KDAA) FORT BELVOIR VA

* Or standard with minimum climb of 380/NM to 500. TAKE-OFF OBSTACLES: Rwv 32, 63' AGL tree 865' from departure end of rwy, 82' right of centerline.

Rwy 32 300-1*

DOVER AFB (KDOV)

TAKE-OFF OBSTACLES: Rwv 1. possible aircraft/

vehicles at DER hammerhead just left of rwy centerline. up to 65' AGL/91' MSL, Rwv 19, possible aircraft/ vehicles at DER hammerhead just right of rwy centerline, up to 65' AGL/91' MSL. Rwy 32. multiple C-5s parked on ramp beginning 1535' thru 2780' from DER, 1010' left of centerline, up to 65' AGL/98' MSL. Bldg 3900' from DER, 760' left of centerline, 88' AGL/ 119' MSL. Possible taxiing aircraft/vehicles on taxilane Alpha beginning 565' thru 2780' from DER, 750' left of centerline, up to 65' AGL/98' MSL, Possible large aircraft 2800' from DER, on taxiway Golf just left of centerline, up to 65' AGL/92' MSL.

DOVER/CHESWOLD. DE

DELAWARE AIRPARK

NOTE: Rwy 9, multiple trees beginning 26' from departure end of runway, 50' left of centerline, up to 100' AGL/149 MSL. Pole line 1151 from departure end of runway, 36' right of centerline, 50' AGL/99' MSL Multiple trees beginning 815' from departure end of runway, 505' right of centerline, up to 100' AGL/154' MSL. Rwv 27, multiple trees beginning 231' from departure end of runway, 85' left of centerline, up to 100' AGL/169' MSL. Multiple trees beginning 829' from departure end of runway, 43' right of centerline, up to 100'AGL/164'MSL.

DUBLIN, VA

NEW RIVER VALLEY (PSK) AMDT 2 09071 (FAA)

TAKE-OFF MINIMUMS: Rwy 24, 200-11/2 or std. w/min.

climb of 310' per NM to 2400.

DEPARTURE PROCEDURE: Rwy 6, climbing right turn heading 150° to intercept PSK VORTAC R-120 outbound to 5200 before proceeding on course.

Rwy 24, climb heading 238° to 4000 before proceeding

on course

NOTE: Rwv 6. tree 321' from DER, 493' left of centerline. 100' AGL/2112' MSL. Terrain 122' from DER, 460' left of centerline, up to 2105' MSL. Rwy 24, pole 1223' from DER, 671' right of centerline, 42' AGL/2161' MSL. Pole 669' from DER, 558' right of centerline, 18' AGL/2137' MSL. Pole 4851' from DER, 1170' left of centerline, 32' AGL/2231'MSL. Tower 5078' from DER 1017' left of centerline, 101' AGL/2300' MSL. Trees 226' from DER, 271' left of centerline, up to 103' AGL/2302' MSL.

Terrain 68' from DER, 281' right of centerline, up to 2116'MSL.



EASTON, MD FASTON/NEWNAM FIFI D

TAKE-OFF MINIMUMS: Rwv 22, 300-2 or std. w/ climb

of 241' per NM to 500.

NOTE: Rwv 4, vehicles on roads beginning 199' from

departure end of runway, 350' right of centerline, up to 15' AGL/102' MSL. Multiple poles beginning 434' from

departure end of runway, 88' right of centerline, up to 31' AGL/100' MSL. Multiple trees beginning 1485' from

departure end of runway, 46' right of centerline, up to 64' AGL/133' MSL. Tree 1509' from departure end of runway, 38' left of centerline, 47' AGL/116' MSL

Rwv 15, fence 2' from departure end of runway, 411' left of centerline, 8' AGL/57' MSL. Multiple poles beginning

721' from departure end of runway, 183' left of centerline. up to 64' AGL/123' MSL. Multiple poles beginning 828'

from departure end of runway, 514' right of centerline, up to 26' AGL/85' MSL. Multiple trees beginning 862' from departure end of runway, 275' left of centerline. up to 89'

AGL/148' MSL. Multiple trees beginning 1357' from departure end of runway, 238' right of centerline, up to

94' AGL/153' MSL. Rwy 22, tree 1251' from departure end of runway, 786' right of centerline, 56' AGL/95' MSL. Multiple trees beginning 1323' from departure end of runway, 759' left of centerline, up to 90' AGL/129' MSL Tower 1.6 NM from departure end of runway, 2373' left of centerline, 276' AGL/291' MSL. Rwy 33, multiple trees 10' from departure end of runway, 19' right of centerline,

up to 139' AGL/158' MSL. Vehicle on road 352' from departure end of runway, 405' right of centerline, 15' AGL/59' MSL. Pole 888' from departure end of runway, 409' left of centerline, 19' AGL/58' MSL. Multiple trees beginning 1153' from departure end of runway, 245' left of centerline, up to 99' AGL/118' MSL.

ELKTON. MD

CECIL COUNTY

TAKE-OFF MINIMUMS: NOTE: Rwy 13, cross departure end of runway at or above 27' AGL/89' MSL. Rwy 31, 300-11/2 or std. w/min. climb of 290' per NM to 400

DEPARTURE PROCEDURE: Rwy 31, climb heading 308° to 900 before turning left. NOTE: Rwy 13, trees 185' from departure end of runway, 110' right of centerline, 50' AGL/113' MSL. Trees 325'

from departure end of runway, 125' left of centerline, 75' AGL/138' MSL. Rwy 31, trees, 1350' from departure end of runway, on centerline, 115' AGL/221' MSL. Trees beginning 1050' from departure end of runway, 781' left to 781' right of centerline, up to 100' AGL/309'MSL

EMPORIA, VA EMPORIA-GREENSVILLERGNI (EMV)

ORIG 09155 (FAA)

NOTE: Rwv 15, vehicle on roadway 21' from DER 291' left of centerline, up to 15' AGL/124' MSL. Trees

beginning 56' from DER 245' right of centerline up to 60' AGL/169' MSL Trees beginning 98' from DER 231' left of centerline, up to 60' AGL/169' MSL. Trees beginning 1387 from DER 387 left of centerline up to 60' AGL/149' MSL. Rwv 33, trees beginning 115' from DER, 276' right of centerline, up to 60' AGL/189' MSL.

Trees beginning 138' from DER, 321' left of centerline. up to 60' AGL/189' MSL. Vehicle on roadway, 163' from DER 524' right of centerline up to 15' AGI /144' MSI Vehicle on roadway, 222' from DER, 534' left of centerline, up to 17' AGL/146' MSL.

FARMVILLE. VA FARMVILLE RGNL (FVX)

ORIG 07354 (FAA)

NOTE: Rwv 3. tree 1335' from departure end of runway.

277' right of centerline, 59' AGL/476' MSL, Rwy 21, vehicle on road 18' from departure end of runway, 495' left of centerline, 15' AGL/425' MSL. Tree 675' from departure end of runway, 315' right of centerline, 42' AGI /452' MSI

FELKER AAF (KFAF).

FORT EUSTIS. VA. Rwv 14.32 standard.

TAKE-OFF OBSTACLES: Rwy 14: Tree 3133' from DER, 167' left of centerline, 103' AGL/112' MSL, Rwy 32: Crane 2938' from DER, 941' left of centerline, 114' AGL/124' MSL. Trees beginning 2931' from DER, 186' left of centerline up to 74' AGL/85' MSL.

08297

FORT MEADE (ODENTON), MD TIPTON

NOTE: Rwy 10, cross departure end of runway at or above 17' AGL/167' MSL. Rwv 10. trees 1052' right of departure end of runway, 88' AGL/238' MSL.

FRANKLIN, VA

FRANKLIN MUNI-JOHN BEVERLY ROSE (FKN)

AMDT 2 09071 (FAA)

NOTE: Rwv 9. trees beginning 1977' from DER, 349' left

of centerline, up to 100' AGL/139' MSL. Trees beginning 1287' from DER, 236' right of centerline, up to 100' AGL/

134' MSL. Vehicle on road 533' from DER, 604' right of centerline, 15' AGL/59' MSL. Rwy 27, trees beginning

100' from DER, 444' left of centerline, up to 100' AGL/

centerline, up to 100' AGL/134' MSL. Vehicle on road 308' from DER, left to right of centerline, 15' AGL/44' MSL.

FREDERICK, MD

FREDERICK MUNI

TAKE-OFF MINIMUMS: Rwy 12, 500-3 or std. with a min. climb of 270' per NM to 1000.

DEPARTURE PROCEDURE: Rwys 5, 23, climb runway heading to 2000 before proceeding on course. Rwy 30, climbing right turn to intercept FDK VOR R-010 to 2400 before proceeding on course.

134' MSL. Trees beginning 520' from DER, 520' right of

9351



FREDERICKSBURG. VA SHANNON

TAKE-OFF MINIMUMS: Rwv 24, 800-3 or std. with a min_climb of 290' per NM to 800 DEPARTURE PROCEDURE: Rwv 24, climb to 800 via

runway heading before proceeding on course. NOTE: 744' tower 2.1 NM from departure end of Rwy 24.

FRIENDLY. MD

POTOMAC AIRFIELD

TAKE-OFF MINIMUMS: Rwvs 6.24, 300-1.

NOTE: Rwv 6, 50' AGL trees 300' left of departure end of runway, 75' AGL trees 320' right of departure end of

runway, Rwy 24, 80' AGL trees 200' right of departure end of runway, 75' AGL trees 200' left of departure end of runway, 30' AGL hanger 200' from departure end of runway 190' right of centerline

FRONT ROYAL, VA

FRONTROYAL-WARREN COUNTY TAKE-OFF MINIMUMS: Rwv 9, std. w/min, climb of

409' per NM to 1100, or 2300-3 for climb in visual conditions. Rwv 27. NA-obstacles. DEPARTURE PROCEDURE: Rwv 9. climbing left turn via MRB R-216 to MRB VORTAC before proceeding on course, do not exceed 180 knots until MRB VORTAC:

or for climb in visual conditions: cross Front Royal-Warren County Airport at or above 2900 MSL before proceeding on course

NOTE: Rwy 9, multiple trees beginning 148' from departure end of runway, 99' right of centerline, up to 100' AGL/939' MSL. Multiple trees beginning 182' from departure end of runway, 189' left of centerline, up to 100' AGI /854' MSI

MONTGOMERY COUNTY AIRPARK

GAITHERSBURG. MD

TAKE-OFF MINIMUMS: NOTE: Rwy 14,62' AGL trees 197' right of centerline. Rwy 32, 63' AGL trees 335' left of centerline.

GALAX-HILLSVILLE, VA

TWIN COUNTY

TAKE-OFF MINIMUMS: Rwv 19, 300-1 or std. with a

min. climb of 240' per NM until passing 3000. Rwy 1, 300-1 or std, with a min, climb of 310' per NM until passing 3000.

GEORGETOWN.DE

SUSSEX COUNTY

TAKE-OFF MINIMUMS: Rwvs 4.13.22.31.300-1.

min. climb of 240' per NM to 2700.

GRUNDY, VA

GRUNDY MUNI

TAKE-OFF MINIMUMS: Rwy 22, 300-2 or std. with a

HAGERSTOWN.MD

HAGERSTOWN RGNL -RICHARD A. HENSON

FIELD TAKE-OFF MINIMUMS: Rwv 2, 300-1.

DEPARTURE PROCEDURE: Rwy 9, climbing left turn to 2500 via 040° heading to intercept the HGR R-084

before departing as cleared. Rwvs 2, 20, climb to 2000 9351 before turning eastbound.

HOT SPRINGS, VA INGALLS FIFLD

TAKE-OFF MINIMUMS: Rwv 7.500-1 or std. with a min. climb of 320' per NM to 4400. Rwy 25, 600-1 or std. with a min. climb of 390' per NM to 5000. DEPARTURE PROCEDURE: Rwv7. climb runwav

heading to 4400 before proceeding on course. Rwy 25, climb runway heading to 5000 before proceeding on course. INDIAN HEAD, MD

MARYI AND

TAKE-OFF MINIMUMS: Rwv 36, 300-11/4 or std. w/ min.

climb of 360' per NM to 600. NOTE: Rwv 18. trees abeam departure end of runway

125' left of centerline, up to 100' AGL/256' MSL. Trees 269' from departure end of runway, on centerline, 100'

AGI /256' MSI Trees abeam departure end of runway 125' right of centerline, up to 100' AGL/256' MSL. Tower 6170' from departure end of runway 620' right of centerline, 190' AGL/384' MSL. Rwy 36, trees 258' from departure end of runway, 309' left of centerline, up to 100'

AGI /271 MSI Tree 567 from departure end of runway

125' left of centerline, 60' AGL/230' MSL. Rising terrain

beginning 73' from departure end of runway, 64' right of

JONESVILLE, VA LEE COUNTY

centerline, 180' MSL.

MSI

TAKE-OFF MINIMUMS: Rwy7, std. w/ min. climb of 467' per NM to 3800, or 1900-3 for climb in visual conditions. Rwy 25, std. w/min. climb of 442' per NM to 3500, or 1900-3 for climb in visual conditions. DEPARTURE PROCEDURE: Rwys 7, 25, for climb in visual conditions cross Lee County Airport at or above 3200 before proceeding on course.

NOTE: Rwv7. terrain 116' from departure end of runway. 72' right of centerline, 1439' MSL, Terrain 691' from departure end of runway, 53' right of centerline, 1459' MSL. Terrain 267' from departure end of runway, 190' left of centerline, 1439' MSL. Terrain 479' from departure end of runway, 68' left of centerline, 1459'



LANGLEY AFB (KLFI) HAMPTON VA

Orig 07354

* Or standard with minimum climb of 240 ft/NM to 700.

NOTE: Rwy 26 cross DER at or above 10' AGL /18' MSL TAKE-OFF OBSTACLES: Rwv8 Boat 2261 from

DER 779 left of centerline 60 AGL/80 MSL Boat 2500' from DER, 59' left of centerline, 60' AGL/ 70' MSI Vehicle on road 1051' from DER 702' right of centerline, 15' AGL/43' MSL, Boat 2841' from DER, 641' right of centerline, 60' AGL/80' MSL, Multiple towers 2.0 NM from DER 1.7 NM right of centerline, 503' AGL/511' MSL, Rwy 26, Tree 4050' from DER 685' left of centerline 100' AGL/ 120' MSL. Tree 4840' from DER, 687' left of centerline.100' AGL/136' MSL. Tree 4044' from DER. 31'left of centerline 101'AGL/113'MSL Tree 4153' from DER, 342' right of centerline, 101' AGL/ 114' MSI Tree 4037' from DER 623' right of centerline, 101' AGL/110' MSL, Tree 4377' from DER, 435' right of centerline, 100' AGL/121' MSL. Tree 3805' from DER 1184' right of centerline 100'AGL/133'MSL.

LAUREL, DE

LAURFI

DEPARTURE PROCEDURE: Rwvs 15.33, climb runway heading to 1200 before proceeding on course.

LAWRENCEVILLE, VA

LAWRENCEVILLE/BRUNSWICK MUNI

TAKE-OFF MINIMUMS: Rwvs 6.24, NA. NOTE: Rwv 18, trees 1654' from departure end of runway, 772' left of centerline, 88' AGL/407' MSL. Trees 200' from departure end of runway, on centerline. 22' AGL/321' MSL Rwv 36, trees 1487' from departure end of runway, 20' left of centerline, 88' AGL/420' MSL. Trees 113' from departure end of runway, 372' right of centerline, 88' AGL/420' MSL.

LEESBURG. VA

LEESBURG EXECUTIVE (JYO)

AMDT 1 09183 (FAA)

DEPARTURE PROCEDURE: Rwv 35, climb heading 351° to 900 before proceeding on course. NOTE: Rwy 17, building 167' from DER, 360' left of centerline, 22' AGL/401' MSL, Pole 958' from DER.

373' left of centerline, 32' AGL/421' MSL. Trees beginning 138' from DER, left and right of centerline, up to 100' AGL/464' MSL. Rwy 35, terrain 96' from DER, 453' left of centerline, 381' MSL, Tree 1078' from DER, 525' left of centerline, up to 100' AGL/413' MSL. Trees 682' from DER, 333' right of centerline, up to 100' AGL/459' MSL. Pole 638' from DER, 642' right of centerline, 49' AGL/428' MSL.

LEONARDTOWN.MD ST MARY'S COUNTY RGNI

NOTES: Rwv 11, multiple trees beginning 88' from

departure end of runway 339' left of centerline up to 80' AGL/205' MSL. Multiple trees beginning 61' from departure end of runway, 193' right of centerline up to 80' AGL/205' MSL. Rwv 29, multiple trees beginning 996' from departure end of runway, 227' left of centerline up to 79' AGL/221' MSL. Multiple trees beginning 596' from departure end of runway, 277' right of centerline up to 71' AGL/213' MSL. Multiple towers on buildings beginning 53' from departure end of runway, 400' right of centerline up to 26' AGL/168' MSL. Equipment on building 223' from departure end of runway, 449' right of centerline. 15' AGL/169' MSL. Tower 402' from departure end of runway, 399' right of centerline, 33' AGL/175' MSL. Fence 496' from departure end of runway, 241' right of centerline, 22' AGL/164' MSL.

LOUISA. VA

LOUISA COUNTY/FREEMAN FIELD (LKU) ORIG 08157 (FAA)

NOTE: Rwv 9, trees beginning abeam departure end of runway, 369' right of centerline, up to 100' AGL/589' MSL. Trees beginning 226' from departure end of runway, 541' left of centerline, up to 100' AGL/559' MSL. Trees beginning 1200' from departure end of runway, left and right of centerline, up to 100'AGL/539'MSL, Rwy 27. trees beginning abeam departure end of runway, 350' right of centerline, up to 100' AGL/569' MSL, Trees beginning 211' from departure end of runway, 133' right of centerline, up to 100' AGL/569' MSL. Trees beginning 69' from departure end of runway, 513' left of centerline, up to 100' AGL/569' MSL. Trees beginning 586' from departure end of runway, left and right of centerline, up to 100' AGL/549' MSL.

LURAY. VA

LURAY CAVERNS

TAKE-OFF MINIMUMS: Rwys 4, 22, 1000-3 DEPARTURE PROCEDURE: Climb visually so as to cross airport at or above 2000, then continue climb to 5000 via LUA 215° bearing before proceeding on

LYNCHBURG. VA

FAI WELL

TAKE-OFF MINIMUMS: Rwy 10, 1100-21/2 for climb in visual conditions. Rwy 28, NA-obstacle.

DEPARTURE PROCEDURE: Rwy 10, for climb in visual conditions: cross Falwell Airport at or above 1900 before proceeding on course.

NOTE: Rwy 10, multiple trees 9' from departure end of runway, 87' right of centerline, up to 100' AGL/899' MSL. Multiple power lines 2896' from departure end of runway. 1192' right of centerline, up to 149' AGL/968' MSL.



$\overline{f V}$ take-off minimums and (obstacle) departure procedures $\overline{f V}$

LYNCHBURG, VA (CON'T)

LYNCHBURG RGNL/PRESTON GLENN FIELD (LYH)

AMDT 8 08073 (FAA)

TAKE-OFF MINIMUMS: Rwv 17, 300-21/4 or std. w/

min. climb of 232' per NM to 1500. Rwy 35. std. w/min. climb of 350' per NM to 3000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: Rwv 4. climb heading 036° to 2200 before proceeding on course, Rwy 17. climb heading 169° to 1800 before turning right, Rwy

22. climb heading 216° to 1800 before turning right. Rwy 35, climb heading 349° to 3000 before turning left, or for climb in visual conditions; cross Lynchburg Rgnl/Preston Glenn Field at or above 2500' MSL before proceeding on course.

NOTE: Rwv 4. trees beginning 2029' from departure end of runway, 62' right of centerline up to 81' AGL/999' MSL. Trees beginning 1422' from departure end of runway, 3' left of centerline up to 76' AGL/995' MSL. Poles beginning 427' from departure end of runway. 483' right of centerline up to 44' AGL/1044' MSL. Obstruction lights on fence beginning 2' from departure end of runway, 500' right of centerline up to 30' AGL/948' MSL, Antenna on building 395' from departure end of runway, 277' right of centerline 15' AGL/954' MSL, Light 606' from departure end of runway, 599' right of centerline, 18' AGL/982' MSL. Building 400' from departure end of runway, 345' right of centerline, 12' AGL/951' MSL, Rwv 17, trees beginning 284' from departure end of runway, 77' left of centerline up to 277' AGL/1195' MSL, Trees beginning 265' from departure end of runway, 178' right of centerline up to 57' AGL/969' MSL. Obstruction light on pole 9326' from departure end of runway 333' left of centerline, 270' AGL/1188 MSL. Rwy 22, trees beginning 274' from departure end of runway, 245' right of centerline up to 41' AGL/979' MSL. Trees beginning 2616' from departure end of runway, 206' left of centerline up to 41' AGL/979' MSL. Poles beginning 2872' from departure end of runway, 603' right of centerline up to 44' AGL/982' MSL. Rwv 35, trees beginning 2955' from departure end of runway, 140' right of centerline up to 96' AGL/ 1014' MSL. Trees beginning 722' from departure end of runway, 71' left of

centerline up to 119' AGL/1037' MSL. Pole 36' from

943' MSL.

departure end of runway 98' left of centerline, 25' AGL/

MANASSAS. VA MANASSAS RGNI/HARRY P DAVIS FIFI D

NOTE: Rwy 16R, terrain 64' from departure end of

runway, 136' right of centerline, 179' MSL. Numerous trees beginning 242' from departure end of runway, 53' right of centerline up to 100' AGL/279' MSL. Vehicle on road 886' from departure end of runway, 463' right of centerline, 15' AGL/214' MSL, Terrain 33' from departure end of runway, 427' left of centerline, 179' MSL. Numerous trees beginning 688' from departure end of runway 40' left of centerline, up to 100' AGL /279' MSL. Rwy 16L, terrain 56' from departure end of runway, 177' left of centerline, 179' MSL, Numerous trees beginning 1911' from departure end of runway, 158' left of centerline, up to 83' AGL/292' MSL, Terrain 87' from departure end of runway, 386' right of centerline, 179' MSL. Numerous trees beginning 2559' from departure end of runway, 29' right of centerline, up to 100' AGL/273' MSL. Rwy 34R, sign 70' from departure end of runway, 91' right of centerline, 6' AGL/ 196' MSL. Terrain beginning 23' from departure end of runway, 222' right of centerline, up to 199' MSL. Vehicle on road 198' from departure end of runway, 9' right of centerline, 15' AGL/214' MSL. Numerous trees beginning 1860' from departure end of runway, 828' right of centerline, 70' AGL/280' MSL. Numerous trees beginning 2875' from departure end of runway, 484' left of centerline, up to 27' AGL/266' MSL, Rwv 34L, terrain 107' from departure end of runway, 409' right of centerline, 189' MSL. Numerous trees beginning 2802' from departure end of runway, 251' right of centerline, up to 27' AGL/266' MSL. Terrain 76' from departure end of runway, 154' left of centerline, 189' MSL. Vehicle on road 366' from departure end of runway, 19' left of centerline, 15' AGL/204' MSL. Numerous trees beginning 1603' from departure end of runway, 249' left of centerline, up to 43' AGL/252' MSL. Tower 3398' from

MARION/WYTHEVILLE. VA

MOUNTAIN EMPIRE

AGL/274'MSL.

TAKE-OFF MINIMUMS: Rwy 8, 300-1. Rwy 26, 800-1. DEPARTURE PROCEDURE: Rwy 8, climb direct to MK NDB then climb to 5300 via 073° bearing before proceeding on course. Rwy 26, climb to 5400 via 253° bearing from MK NDB before proceeding on course.

departure end of runway, 1102' left of centerline, 68'

MARTINSVILLE, VA

BLUE RIDGE (MTV)

AMDT 2A 08269 (FAA)

TAKE-OFF MINIMUMS: Rwy 12, std. with a min. climb of 240' per NM to 2100. Rwy 30, 300-1 or std. with a min. climb of 370' per NM to 1100.

DEPARTURE PROCEDURE: Rwy 12, climb direct

BALES LOM, climb in BALES LOM holding pattern (SE, right turns, 304° inbound) to 4000 before proceeding on course. Rwy 30, climbing right turn direct BALES LOM, climb in BALES LOM holding pattern (SE, right turns, 304° inbound) to 4000 before proceeding on course. NOTE: Rwy 12, trees 38' from departure end of runway, 380' right of centerline, 82' AGL/941' MSL. Trees 316'

from departure end of runway, 320' left of centerline, 56' AGL/956' MSL.

9351



MELFA. VA ACCOMACK COUNTY

NOTE: Rwv 3, multiple trees beginning 41' from

departure end of runway 221' right of centerline, up to 84' AGI /128' MSI Truck on road 204' from departure end of runway 231' left of centerline 15' AGL/61' MSL Multiple trees beginning 249' from departure end of runway, 14' left of centerline, up to 106' AGL/155' MSL Truck on road 494' from departure end of runway 228' left of centerline 15' AGL /62' MSL Rodon obstruction light tower 862' from departure end of runway 402 left of centerline 55 AGI /99 MSI Rwy 21, multiple trees beginning 27' from departure end of runway 395' right of centerline, up to 91' AGL /135 MSI Multiple trees 504' from departure end of runway, 403' left of centerline, up to 110' AGL/144' MSI

MIDDLETOWN, DE

SUMMIT

TAKE-OFF MINIMUMS: Rwv 35, 300-1, or std, with a min, climb of 280' per NM to 400.

MITCHELLVILLE. MD

FRFFWAY

TAKE-OFF MINIMUMS: Rwv 18, 300-1 or std. with a min. climb of 295' per NM to 500. Rwv 36, 300-1 or std, with a min, climb of 500' per NM to 600. NOTE: Rwv 18, trees 328' from departure end of runwav. 20' AGL/178' MSL. Trees 838' from departure end of runway 337' left of centerline 50' AGL /220' MSL. Rwv 36, cross departure end of runway at or above 35' AGL/203' MSL. Road/vehicle, 231' from departure end of runway, 17' AGL/185' MSL, Trees 332' from departure end of runway, 20' AGL/188' MSL. Power poles and lines crossing centerline, 2280' from departure end of runway, 186' AGL/345' MSL.

MONETA. VA

SMITH MOUNTAIN LAKE

TAKE-OFF MINIMUMS: Rwvs 5, 23, 300-1. DEPARTURE PROCEDURE: Rwys 5, 23, climb straight ahead to 1600 before proceeding on course.

NEWPORT NEWS, VA NEWPORT NEWS/WILLIAMSBURG INTI

TAKE-OFF MINIMUMS: Rwv 20, 300-11/4 or standard

with a minimum climb of 255' per NM to 300. NOTE: Rwv 2, bush 295' from departure end of runway. 291' right of centerline 22'AGL/62' MSL. Tree 937' from departure end of runway, 603' left of centerline 81' AGL/ 131'MSL. Pole 1221' from departure end of runway. 487' right of centerline 31' AGL/81' MSL Tree 1275' from departure end of runway, 517' left of centerline 79' AGL/132 MSL. Multiple trees beginning 1554 from departure end of runway, 298' left of centerline up to 88' AGL/141' MSL. Tree 1686' from departure end of runway, 428' right of centerline 61' AGL/114' MSL. Tree 1849' from departure end of runway, 598' right of centerline 72' AGL/125' MSL. T-L tower 3351' from departure end of runway, 1008' left of centerline 109' AGL/161 MSL. Rwy7, tree 371' from departure end of runway, 588' left of centerline 36' AGL/73' MSL, T-L tower 4120' from departure end of runway, 1324' right of centerline 93' AGL/116'MSL. T-L tower 5625' from departure end of runway, 1345' left of centerline 133' AGL/191'MSL. Rwy 20, bush 96' from departure end of runway, 293' left of centerline 22' AGL/52' MSL, Stack 5977' from departure end of runway, 598' left of centerline 186' AGL/227' MSL. Rwv 25. tree 694' from departure end of runway, 549' right of centerline 42' AGL/65' MSL. Tree 1020' from departure end of runway, 703' right of centerline 23' AGL/97' MSL. Tree 1622' from departure

NORFOLK, VA

CHESAPEAKE RGNI

DEPARTURE PROCEDURE: Rwvs 5, 23, climb runway heading to 500 before proceeding on course. NOTE: Rwy 5, cross departure end of runway at or above 27' AGL/48' MSL. Trees 2200' from departure end of runway, 545' left of centerline, 81' AGL/102' MSL. Rwy 23, cross departure end of runway at or above 25' AGL/ 43'MSL, Trees 1600' from departure end of runway, 710' right of centerline, 62' AGL/82' MSL.

end of runway, 529' left of centerline 59' AGL/79' MSL.

Tree 2654' from departure end of runway, 335' right of

end of runway, 1125' right of centerline 116' AGL/139'

centerline 86' AGL/106' MSL. Tree 3435 from departure



NORFOLK, VA (CON'T) HAMPTON ROADS EXECUTIVE

TAKE-OFF MINIMUMS: Rwv 10, std. w/min. climb of 217 per NM to 700 or alternatively w/std_takeoff minimums and a normal 200' per NM climb gradient. takeoff must occur no later than 2100' prior to departure

end of runway or 1700-21/2 for climb in visual conditions 102° to 900 before proceeding on course, or for climb in visual conditions, cross Hampton Roads Executive Airport at or above 1600 before proceeding on course AGL/124' MSL. Multiple trees beginning 917' from departure end of runway, 422' right of centerline, up to

DEPARTURE PROCEDURE: Rwv 2, climb heading 019° to 1600 before turning west. Rwy 10, climb heading Rwv 20. climb heading 199° to 1000 before turning North. Rwy 28, climb heading 282° to 1500 before turning North. NOTE: Rwy 2, multiple trees beginning 693' from departure end of runway, 286' left of centerline, up to 100' 100' AGL/124' MSL. Rwv 10, trees 688' from departure end of runway, 374' left of centerline, 61' AGL/85' MSL. Vehicle on road and multiple trees beginning 750' from departure end of runway, 359' right of centerline, up to 100' AGL/124' MSL. Tower 1.1 NM from departure end of runway, 1424' left of centerline, 175' AGL/192' MSL. Rwy 20, vehicle on road and multiple trees beginning 199' from departure end of runway, 250' left of centerline. up to 100' AGL/124' MSL. Vehicle on road and multiple trees beginning 595' from departure end of runway, 8' right of centerline, up to 100' AGL/124' MSL, Rwv 28. multiple trees beginning 2711' from departure end of

runway, 366' left of centerline, up to 100' AGL/124' MSL.

beginning 2595' from departure end of runway, 362' right

Vehicle on road 3' from departure end of runway, 112'

right of centerline, 17' AGL/34' MSL. Multiple trees

of centerline, up to 100' AGL/124' MSL.

NORFOLK, VA (CON'T) NORFOLK INTL NOTES: Rwv 5, mobile crane 4091' from departure end

of runway, 1249' right of centerline, 150' AGL/163' MSI Multiple ship masts beginning 2761' from departure end of runway, 22' right of centerline, up to 100' AGL/100' MSL. Multiple ship masts beginning 2564' from departure end of runway, 133' left of centerline, up to 100' AGL/100' MSL. Obstruction light on pole 3978' from departure end of runway, 931' left of centerline, 138' AGL/146' MSL. Multiple towers beginning 4045' from departure end of runway, 982' left of centerline, up to 138' AGL/146' MSL. Obstruction light on pole 2898' from departure end of runway, 811' right of centerline, 84' AGL/98' MSL, Antenna 4115' from departure end of runway, 1585' right of centerline, 117' AGL/131' MSL. Tower 2974' from departure end of runway, 772' right of centerline, 90' AGL/98' MSL. obstruction light on pole 2696' from departure end of runway, 1063' left of centerline, 84' AGL/91' MSL. Bush 29' from departure end of runway, 307' right of centerline, 6' AGL/20' MSL. Tree 1459' from departure end of runway, 159' left of centerline, 41' AGL/55' MSL. Tower 2938' from departure end of runway, 1254' left of centerline. 89' AGL/94' MSL. Tree 1399' from departure end of runway, 201' right of centerline, 38' AGL/52' MSL. Sign 82' from departure end of runway, 301' left of centerline, 2' AGL/19' MSL. Terrain 23' from departure end of runway, 227' left of centerline, 0' AGL/17'MSL, Rwy 14, tree 2541' from departure end of runway, 432' right of centerline, 101' AGL/121' MSL. Multiple trees beginning 443' from departure end of runway, 398' left of centerline, up to 75' AGL/95' MSL. Pole 1410' from departure end of runway, 254' right of centerline, 45' AGL/62' MSL, Rwv 23, rod on obstruction light pole 1012' from departure end of runway, 650' right of centerline, 56' AGL/73' MSL. Multiple trees beginning 619' from departure end of runway, 584' left of centerline, up to 81' AGL/98' MSL. Obstruction light on pole 1433' from departure end of runway, 738' left of centerline, 54' AGL/71' MSL. Multiple trees beginning 323' from departure end of runway, 504' right of centerline, up to 26' AGL/43' MSL. Pole 2165' from departure end of runway, 840' right of centerline, 57' AGL/74' MSL. Rwy 32, multiple trees beginning 17' from departure end of runway, 460' right of centerline, up to 81' AGL/98' MSL. Multiple trees and poles beginning 60' from departure end of runway, 333' left of centerline, up to 87' AGL/92' MSL. Road

NORFOLK NS (CHAMBERS FIELD)(KNGU)

NORFOLK, VA 08269

207' from departure end of runway, 231' right of centerline, 12' AGL/29' MSL. Multiple obstruction lights on towers 201' from departure end of runway, 135' left of centerline, up to 12' AGL/27' MSL.

Rwv 28: 300-11/2*

* Or standard with minimum climb of 235'/NM (DoD) or 245'/NM (civil) to 300. TAKE-OFF OBSTACLES: Rwy 10: Trees with a

maximum height of 100' within 1500' of departure end of rwy. Cross departure end of rwy at or above 35' AGL/48'



OAKLAND, MD GARRETT COUNTY (2G4)

ORIG 08101 (FAA)

NOTE: Rwv 9. Multiple trees beginning 75' from departure end of runway 94' left of centerline up to 100' AGL/2939' MSL. Multiple trees beginning 76' from departure end of runway 47' right of centerline up to 100' AGL /2939' MSL Rwy 27. Multiple trees beginning 15' from departure end of runway, 334' left of centerline, up to 100' AGL/3019' MSL. Multiple trees beginning 19' from departure end of runway. 107' right of centerline, up to 100' AGL/3019' MSL.

OCEAN CITY, MD

OCEAN CITY MUNI

TAKE-OFF MINIMUMS: Rwvs 2, 32, 400-2 or std. with a min_climb of 260' per NM to 500

OCEANA NAS (APOLLO SOUCEK FIELD)(KNTU)

VIRGINIA BEACH, VA. 09351 TAKE-OFF OBSTACLES: Rwv 5L, Trees 115' MSL. 3706' from DER, 97' right of centerline, Rwy 5R. Trees 115' MSL, 3706' from DER, 603' left of centerline, Rwv 14L, Trees 105' MSL, 2792' from DER, 7' left of centerline, Rwy 14R, Trees 105' MSL. 2792' from DER 708' left of centerline

ORANGE, VA

ORANGE COUNTY

TAKE-OFF MINIMUMS: Rwv 8, 300-1. DEPARTURE PROCEDURE: Rwvs 8, 26, climb runway heading to 1500 before turning.

PATUXENT RIVER NAS (TRAPNELL FIELD),(KNHK)

PATUXENT RIVER, MD 09267 Rwy 6, Obstacle identification surface begins 15' above

DER Rwy 14, Obstacle identification surface begins 35'

above DER.

Rwy 20, Obstacle identification surface begins 20' above DER.

Rwy 24, Obstacle identification surface begins 15' above DER.

TAKE-OFF OBSTACLES: Rwv 6. Pole 63' AGL/83' MSL, 1967' from DER, 981' left of centerline. Rwy 14, Trees 42' AGL/57' MSL, 190' from DER, 223' left of centerline. Two lane road crossing rwy thld max ht 17' AGL/33' MSL, 193' from DER. Pole 34' AGL/50' MSL, 315' from DER, 198' left of centerline, Trees 43' AGL/ 59' MSL, 520' from DER, 637' right of centerline. Rwy 20, Trees 44' AGL/81' MSL, 1555' from DER, 845' right of centerline, Trees 56' AGL/93' MSL, 2057' from DER, 778' right of centerline. Trees 67' AGL/ 104' MSL, 2077' from DER, 818' right of centerline. Trees 93' AGL/130' MSL, 3029' from DER, 32' left of

centerline. Rwy 24, 43' AGL/81' MSL, 1682' from DER, 582' left of centerline. Trees 57' AGL/93' MSL, 2015' from DER, 965' left of centerline, Trees 66' AGL/104' MSL, 2056' from DER, 948' left of centerline.

PETERSBURG. VA DINWIDDIE COUNTY (PTB)

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: Rwvs 32, 14, NA-obstacles. NOTE: Rwv 5, numerous trees beginning 911' from departure end of runway, 551' left of centerline, up to 65' AGI /254 MSI Fence 161 from departure end of runway 472' right of centerline 7' AGI /196' MSI. Tree 1031' from departure end of runway, 690' right of centerline 57' AGI /256' MSI Rwy 23, numerous trees beginning 2615' from departure end of runway, 69' right of centerline, up to 80' AGL/289' MSL. Fence 10' from departure end of runway 476' left of centerline 10' AGL/ 199' MSL. Numerous trees beginning 819' from departure end of runway 528' left of centerline up to 72' AGL/281' MSL.

PHILLIPS AAF (KAPG)

ABERDEEN PROVING GROUND, MD ... 07270 TAKE-OFF OBSTACLES: Rwv 4 vehicle on road 1059' from DER, on centerline, 10' AGL/86' MSL. Tree 1126' from DER 118' left of centerline 29' AGL/88' MSL. Rwy 22, vehicle on road 234' from DER, 27' right of centerline, 10' AGL/49' MSL, Multiple trees beginning 398' from DER, 311' right of centerline, up to 50' AGL/89' MSL. Tree 1094' from DER, 49' left of centerline, 43' AGL/62' MSL,

QUANTICO MCAF (TURNER FIELD) (KNYG)

QUANTICO, VA Diverse departures not authorized.

Rwv 2.400-21/2*

Rwy 20, 300-11/4**

* Or standard with minimum civil climb of 470 ft/NM to 600, minimum military climb of 410 ft/NM to 500.

** Or standard with minimum civil climb of 360 ft/NM to 400, minimum military climb of 320 ft/NM to 400. DEPARTURE PROCEDURE: Rwv 2. Climbing right turn to 2000 direct BRV VORTAC or to assigned

heading for radar vectors. Rwy 20, Climb to 2000 direct BRV VORTAC or as assigned for radar vectors.

TAKE-OFF OBSTACLES: Rwy 2, Multiple trees on rising terrain 100' AGL/296' MSL, 4075' from DER, 803' left of centerline. Multiple trees on rising terrain 100' AGL/197' MSL, 5763' from DER, 106' left of centerline. Multiple trees 100' AGL/240' MSL, 5763' from DER, 509' right of centerline. Smokestack 100' MSL, 2310' from DER, 401' left of centerline, Multiple smokestacks up to 397' MSL, 2

NM from DER, 4175' right of centerline. Rwy 20, Terrain 27' MSL, starting 347' from DER, 192' right of centerline, Trees 34' AGL/213' MSL, 5749' from DER. 1878' right of centerline.

9351



QUINTON VA NEW KENT COUNTY

NOTE: Rwv 10, trees beginning 358' from departure end

of runway 6' left of centerline up to 100' AGL/169' MSL Trees beginning 994' from departure end of runway, 602' right of centerline, up to 100' AGL/209' MSL. Trees

beginning 1396' from departure end of runway, 389' left of centerline, up to 100' AGL/209' MSL. Trees

beginning 3422' from departure end of runway, left and right of centerline, up to 100' AGL/239' MSL. Rwy 28, trees beginning 345' from departure end of runway, 296' right of centerline, up to 100' AGL/209' MSL, Trees

beginning 367' from departure end of runway, 527' left of centerline, up to 100' AGL/209' MSL. Trees beginning 2134' from departure end of runway, left and right of

RICHLANDS, VA TAZEWELL COUNTY

centerline, 100' AGL/239' MSL.

TAKE-OFF MINIMUMS: Rwy 7, 300-1 or std. with a min. climb of 430' per NM to 3000. Rwy 25, 300-1 or std. with a min. climb of 280' per NM to 2900. DEPARTURE PROCEDURE: Rwy7, climb runway

heading to 4700 before proceeding southbound. Rwy 25, climb runway heading to 4100 before proceeding southbound.

RICHMOND, VA

CHESTERFIELD COUNTY TAKE-OFF MINIMUMS: Rwy 15, 800-1 or std. with a min. climb of 280' per NM to 1200. Rwy 33, 1200-1, or std.

with a min. climb of 220' per NM to 1700. DEPARTURE PROCEDURE: Rwy 15. climb runway heading to 1200' before proceeding on course. Rwy 33, climb runway heading to 1700' before proceeding on course.

NOTE: Rwy 15, 18' AGL pole 1315' from departure end of runway, 304' left of centerline, Rwv 33, 84' AGL tree 2399' from departure end of runway, 84' left of centerline.

RICHMOND INTL

NOTE: Rwy 2, cross departure end of runway at or above 30' AGL/195' MSL. Rwy 7, cross departure end of runway at or above 34' AGL/223' MSL. Rwy 16, cross departure end of runway at or above 22' AGL/183' MSL.

Rwy 20, cross departure end of runway at or above 35' AGL/193' MSL. Rwv 25, cross departure end of runway

at or above 20' AGL/176' MSL. Rwy 34, cross

departure end of runway at or above 10' AGL/177' MSL.

RICHMOND/ASHLAND. VA HANOVER COUNTY MUNI (OFP)

ORIG 09239 (FAA)

NOTE: Rwv 16, treees beginning 48' from DER 479'

left of centerline, up to 101' AGL/291' MSL. Poles beginning 1077' from DER, 36' left of centerline, up to from DER, 26' left of centerline, up to 108' AGL/298'

36' AGL/236' MSL. Pole 1120' from DER 166' right of centerline 30' AGL/230' MSL. Trees beginning 1307' MSL. Trees beginning 1431' from DER, 319' right of centerline, up to 104' AGL/294' MSL, Rwv 34, road and trees beginning 149' from DER, 345' right of centerline. up to 47' AGL/247' MSL. Road and trees beginning 410'

from DER, 386' left of centerline, up to 103' AGL/293' MSL. Poles beginning 660' from DER, on centerline, up to 39' AGL/239' MSL. Trees beginning 1402' from DER,

445' right of centerline, up to 100' AGL/290' MSL, Trees beginning 2714' from DER, 487' right of centerline, up

RIDGELY. MD RIDGELY AIRPARK

to 104' AGL/304' MSL.

NOTE: Rwy 12, multiple trees beginning 592' from departure end of runway, 6' left of centerline, up to 100' AGL/160' MSL. Multiple trees beginning 239' from departure end of runway, 338' right of centerline, up to 100' AGL/160' MSL.

ROANOKE, VA

ROANOKE RGNL/ WOODRUM FIELD (ROA) AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: Rwys 6, 33, NA - obstacles. Rwv 24. std. w/min. climb of 216' per NM to 2600. DEPARTURE PROCEDURE: Rwy 15, climb heading

154° to intercept the ROA VORTAC R-122 to 4000 before proceeding on course. Rwy 24, climb west on I-SZK LDA localizer course on 4200 to DIXXY Int/I-SZK 15.25 DME before proceeding on course. NOTE: Rwv 15, trees 1.18 NM from departure end of

runway, 2122' left of centerline, 60' AGL/1321' MSL, Rwy 24, bush 86' from departue end of runway, 385' left of centerline, 4' AGL/1163' MSL, Tree 150' from departure end of runway, 415' right of centerline, 60' AGL/1171'MSL, Tree 737' from departure end of runway, 454' right of centerline, 60' AGL/1179' MSL.

Tree 1164' from departure end of runway, 726' right of

SALISBURY, MD

SALISBURY-OCEAN CITY WICOMICO RGNL

(SBY) ORIG 07354 (FAA)

centerline, 60' AGL/1206' MSL.

NOTE: Rwy 5, trees and antennas beginning 961' from

departure end of runway, 49' left of centerline, up to 83' AGL/135' MSL. Trees beginning 2769' from departure end of runway, 5' right of centerline, up to 85' AGL/136' MSL. Rwy 23, trees beginning 514' from departure end of runway, 518' left of centerline, up to 68' AGL/118'

MSL. Trees and antenna beginning 774' from departure

end of runway, 303' right of centerline, up to 76' AGL/ 127' MSL. Trees beginning 2835' from departure end of runway, 186' right of centerline, up to 75' AGL/125' MSL. Rwy 32, trailer, hangar and obstruction light beginning 120' from departure end of runway, 509' left of centerline, up to 23' AGL/72' MSL. Trees beginning 2215' from departure end of runway, 140' left of centerline, up to 79'



SALUDA. VA HUMMEL FIELD

DEPARTURE PROCEDURE: Rwvs 1.19. climb runway

heading to 1000 before turning on course.

NOTE: Rwv 1, 23' AGL tree left of departure end of runway, 65' AGL tree 663' from departure end of runway.

129' left of centerline, Rwy 19, 26' AGL tree 237' from departure end of runway, 116' right of centerline. SOUTH BOSTON, VA

WILLIAM M TUCK TAKE-OFF MINIMUMS: Rwy 1, 300-1. Rwys 5, 23, NA.

NOTE: Rwv 1.72' AGL tower 324' from departure end of

runway, 283' left of runway centerline.

SOUTH HILL. VA

MECKLENBURG-BRUNSWICK RGNL TAKE-OFF MINIMUMS: Rwy 1, 300-1 or std. with a min.

climb of 250' per NM to 1000, Rwy 19, 300-1 or std. with a min, climb of 370' per NM to 1000'

DEPARTURE PROCEDURE: Rwvs 1.19, climb runway

heading to 1000 before proceeding on course.

STAFFORD, VA

STAFFORD RGNI

DEPARTURE PROCEDURE: Rwv 15, climbing left turn

to 2000, intercept and proceed via BRV R-310 to BRV VORTAC, before proceeding on course. Rwy 33, climbing left turn to 2000, intercept and proceed via BRV

course.

R-306 to BRV VORTAC, before proceeding on course. NOTE: Rwv 33, cross departure end of runway at or above 34' AGI /246' MSI

HARRISONBURG. VA SHENANDOAH VALLEY RGNL (SHD)

STAUNTON-WAYNESBORO-

AMDT 6 09239 (FAA) TAKE-OFF MINIMUMS: Rwy 5, std. w/min. climb of

273' per NM to 3800, or 2200-21/2 for climb in visual conditions. Rwy 23, standard, or 2200-21/2 for climb in visual conditions

DEPARTURE PROCEDURE: Rwy 5, climb heading 047° to 3400 before turning right, or for climb in visual conditions cross Shenandoah Valley Rgnl airport at or above 3300 before proceeding on course. Rwy 23, climb heading 227° to 4400 before proceeding on course, or for climb in visual conditions cross Shenandoah Valley Ranlairport at or above 3300 before proceeding on

NOTE: Rwy 5, trees 1720' from DER, 635' right of centerline, up to 100' AGL/1279' MSL, Rwy 23, tree 679' from DER, 616' left of centerline, 35' AGL/1194' MSL.

STEVENSVILLE, MD BAY BRIDGE TAKE-OFF MINIMUMS: Rwv 29, 500-3 or std. w/min.

NOTE: Rwv 11, road 354 from departure end of runway on

climb of 317' per NM to 800.

centerline, 17' AGL/35' MSL. Multiple trees beginning 1471 from departure end of runway 32 left of centerline up to 100' AGL/119' MSL Multiple trees beginning 1485'

from departure end of runway, 16' left of centerline, up to 100' AGL/119' MSL. Rwv 29, twin bridges 2,25 NM from departure end of runway, 2767' right of centerline, 410'

SUFFOLK, VA SUFFOLK EXECUTIVE

AGI /410' MSI

TAKE-OFF MINIMUMS: Rwvs 4.7.22.300-1. Rwv 25.

300-1 or std. w/a min_climb o f260' per NM to 300.

Alternatively, with standard takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than

1700' prior to departure end of runway

NOTE: Rwv 4, trees 1050' from departure end of runway. 250' left of centerline up to 100' AGL /169' MSL. Trees 1076' from departure end of runway, 105' left of centerline. up to 100' AGL/169' MSL. Powerline 1698' from departure end of runway, 825' right of centerline, 105' AGL/169

MSL. Powerline 3056' from departure end of runway, 524' right of centerline, 105' AGL/174' MSL, Rwv 7, trees 1143' from departure end of runway, 688' left of centerline. up to 100' AGL/169' MSL. Powerline 1211' from departure

end of runway, 717' right of centerline, 105' AGL/169 MSL. Powerline 2176' from departure end of runway, 259' left of centerline, 105' AGL/169' MSL, Trees 2430' from departure end of runway, 118' right of centerline, up to 100' AGL/169' MSL. Powerline 3140' from departure end

of runway, 1263' left of centerline, 105' AGL/174' MSL.

Rwy 22, road 536' from departure end of runway, 62' left of

centerline, 15' AGL/84' MSL. Trees 1403' from departure

end of runway, 765' left of centerline, up to 100' AGL/169'

MSL. Trees 3595' from departure end of runway, 792'

right of centerline, up to 100' AGL/174' MSL, Rwv 25.

AGL/50' MSL, Rock wall at departure end of runway, 57'

MSL. Rwy 28, terrain beginning 12' from departure end of

road 198' from departure end of runway, 33' right of

centerline, 15' AGL/89' MSL. Trees 805' from departure end of runway, 423' right of centerline, up to 100' AGL/169' MSL. Trees 3258' from departure end of runway, 57' right of centerline, up to 100' AGL/174' MSL.

TANGIER, VA TANGIER ISLAND (TGI)

ORIG 09015 (FAA) NOTE: Rwv 2, vehicle on road 343' from departure end of

runway, on centerline, 15' AGL/19' MSL, Boat masts 638' from departure end of runway, 632' right to 755' left of centerline, up to 63' MSL. Rwy 20, buildings beginning 7' from departure end of runway, 206' left of centerline, 45'

TAPPAHANNOCK, VA

TAPPAHANNOCK-ESSEX COUNTY TAKE-OFF MINIMUMS: Rwy 10, 300-114 or std. w/min.

right of centerline, 4' AGL/8' MSL.

climb of 303' per NM to 500. Rwy 28, 300-1 or std. w/min. climb of 366' per NM to 500.

NOTE: Rwy 10, terrain 6' from departure end of runway, 20' left of centerline, up to 135' MSL. Terrain 29' from departure end of runway, 281' left of centerline, up to 139'

9351



WALLOPS ISLAND, VA WALLOPS FLIGHT FACILITY (WAL)

ORIG 09127 (FAA) NOTE: Rwv 4. trees beginning 1254' from DER, 741'

left of centerline, up to 100' AGL/109' MSL. Trees

beginning 1814' from DER, 79' right of centerline, up to 100' AGL/134' MSL. Rwv 10. trees beginning 1252'

from DER, 818' left of centerline, up to 100' AGL/124' MSL. Rwv 17, trees beginning 169' from DER, 218' left of centerline, up to 100' AGL/119' MSL, Rwy 22,

trees beginning 793' from DER, 315' left of centerline. up to 100' AGL/129' MSL. Rwv 28, trees beginning

945' from DER, 495' right of centerline, up to 100' AGL/139' MSL. Rwv 35, trees beginning 3' from DER.

394' left of centerline, up to 100' AGL/124' MSL. Trees beginning 21' from DER, 219' right of centerline, up to 100' AGI /124' MSI WAKEFIELD, VA

WAKEFIELD MUNI DEPARTURE PROCEDURE: Climb straight ahead to

500 before proceeding on course.

WARRENTON, VA WARRENTON-FAUQUIER (HWY)

ORIG 09099 (FAA)

NOTE: Rwv 15, trees 436' from DER 518' right of

centerline, 100' AGL/439' MSL, Vehicle on road 647' from DER, 649' right of centerline, 15' AGL/354' MSL.

Trees 1034' from DER 763' left of centerline 100' AGL/449' MSL. Trees 1924' from DER, 781' right of centerline 100' AGL /459' MSL Trees beginning 2239' from DER, 41' left of centerline, up to 100' AGL/459' MSL. Rwy 33, trees beginning 1272' from DER, 59' right of centerline, up to 41' AGL/370' MSL. Trees beginning 2610' from DER, 116' left of centerline, up to 74' AGI /413' MSI

WASHINGTON. DC RONALD REAGAN WASHINGTON

NATIONAL TAKE-OFF MINIMUMS: Rwy 22, 400-21/2 or std. with a

min, climb of 210' per NM to 500, Rwv 33, 700-3 or std. with a min. climb of 260' per NM to 700. Rwy 1, 600-2 or std. with a min. climb of 370' per NM to 700.

DEPARTURE PROCEDURE: Rwv 1. left turn as soon as practicable, intercept DCA R-328. Climb to 5000 or as assigned, Rwv 19, climb heading 184° to 500 before turning right. Rwy 33, intercept DCA R-328.

Climb to 5000 or as assigned. NOTE: Prohibited area, P-56, 1.5 NM north of airport.

WASHINGTON DULLES INTL (IAD) AMDT 1 08325 (FAA)

NOTE: Rwv 1L, tower 1918' from departure end of

runway, 680' left of centerline, 56' AGL/330' MSL. Rwy 1C, tree 2814' from departure end of runway, 1030' left of centerline, 86' AGL/345' MSL, Rwv 1R. post 12' from departure end of runway, 223' right of

departure end of runway, 604' left of centerline, 28' AGL/307'MSL. Rwy 30, trees beginning 161' from departure end of runway, 520' left of centerline, up to 57' AGL/396' MSL.

WEST POINT, VA MIDDLE PENINSULA RGNL (FYJ)

ORIG 08157 (FAA)

NOTE: Rwy 10, multiple trees beginning 86' from

departure end of runway, left and right of centerline, up to 100' AGL/129' MSL. Rwv 28. multiple trees beginning 33' from departure end of runway left and right of centerline up to 100' AGL/119' MSL. Ship mast 3427' from departure end of runway, left and right of centerline. 135' AGL/135'

WESTMINSTER.MD CARROLL COUNTY RGNL/JACK B. POAGE

FIFI D TAKE-OFF MINIMUMS: Rwv 16 400-1 or std with a min

climb of 210' per NM to 1300, Rwy 34, 300-1 or std, with a min_climb of 320' per NM to 1000 NOTE: Rwv 16.87' AGL trees 644' from departure end of runway, Rwy 34, 102' AGL trees 116' from departure end of runway 220' right of centerline

CLEARVIEW AIRPARK (2W2) ORIG 09239 (FAA)

TAKE-OFF MINIMUMS: Rwv 32, 300-21/4 or std. w/min. climb of 290' per NM to 1200.

NOTE: Rwv 14. vehicles and aircraft on road/taxiwav 14' from DER, 47' right to left of centerline, 15' AGL/834' MSL, Trees beginning 35' from DER, 200' left of centerline, up to 100' AGL/939' MSL. Trees beginning 21' from DER, 90' right of centerline, up to 100' AGL/919' MSL. Rwv 32, vehicle on road 191' from DER, 516' left of centerline, 15' AGL/774' MSL. Trees beginning 8' from

DER, 24' left of centerline, up to 100' AGL/959' MSL. Trees beginning 60' from DER, 50' right of centerline, up

WILLIAMSBURG, VA WILLIAMSBURG-JAMESTOWN

to 100' AGL/859' MSL.

TAKE-OFF MINIMUMS: Rwv 31, 300-1.

centerline, 8' AGL/294' MSL, Rwy 12, tree 520' from

Trees beginning 532' from departure end of runway. 9351 600' right of centerline, up to 64' AGL/383' MSL.



NEW CASTLE

TAKE-OFF MINIMUMS: Rwv 19, 300-1 or std. w/min.

WILMINGTON, DE

climb of 266' per NM to 300.

NOTE: Rwv 1, multiple trees beginning 751' from departure end of runway, 32' left of centerline, up to 59' AGI /120 MSI tree 1219 from departure end of runway 482 right of centerline 57 AGL /118 MSL bush 118' from departure end of runway, 385' left of centerline 4' AGI /65' MSI Rwv 9 multiple trees beginning 1229' from departure end of runway, 30'

right of centerline up to 62' AGL/133' MSL, tree 975'

from departure end of runway 66' left of centerline 53' AGL/124' MSL, light pole 948' from departure end of runway 596 right of centerline 44 AGI /115 MSI tree 1740' from departure end of runway, 458' left of centerline, 83' AGL/134' MSL, light pole 945' from

departure end of runway, 316' right of centerline, 38' AGL/109' MSL, rod on building 916' from departure end of runway 457' left of centerline 29' AGL /100' MSL. Rwv 14, obstacle light 553' from departure end of runway, 440' left of centerline, 29' AGL/103' MSL.

rod on obstacle light 606' from departure end of runway, 615' left of centerline, 19' AGL/93' MSL, Rwy 19. antenna on obstruction light tower 4469' from departure end of runway, 1684' right of centerline, 153' AGL/228' MSL, tree 1575' from departure end of runway 850 right of centerline 45 AGL /120 MSL obstruction light on sign 971' from departure end of runway, 448' left of centerline, 28' AGL/103' MSL. Rwy 27, tree 697 from departure end of runway, 533 left of centerline, 68' AGL/147' MSL. Tree 1110' from departure end of runway 584' right of centerline 38' AGL/117' MSL, pole 793' from departure end of runway, 615' right of centerline, 28' AGL/107' MSL. bush 408' from departure end of runway, 415' left of

centerline, 12' AGL/91' MSL. Rwy 32, tree 711' from departure end of runway, 207' right of centerline, 29' AGL/104' MSL, tree 1162' from departure end of runway, 83' right of centerline, 32' AGL/107' MSL.

WINCHESTER. VA

WINCHESTER RGNL

TAKE-OFF MINIMUMS: Rwv 32, 800-2 or std. with a min, climb of 210' per NM to 1700. DEPARTURE PROCEDURE: Rwv 32, climb runway

heading to 1700 before turning on course.

WISE. VA

LONESOME PINE

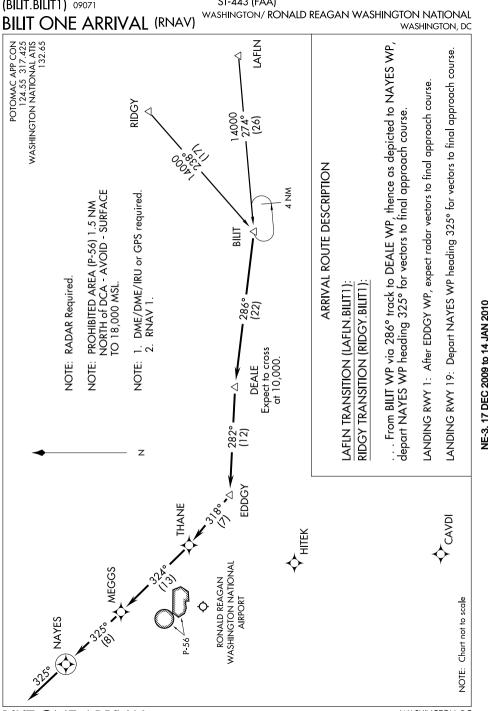
TAKE-OFF MINIMUMS: Rwv 24, 1800-3 or std. with a min, climb of 400' per NM to 4700.

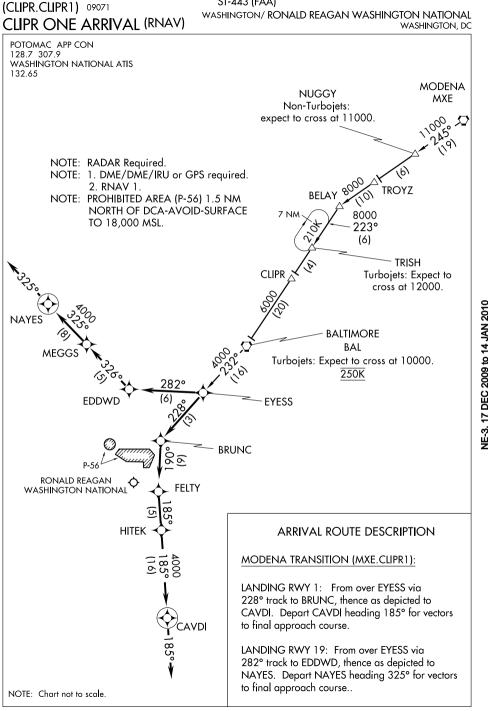
DEPARTURE PROCEDURE: Rwv 6, climb on runway heading to 3800 before proceeding on course.

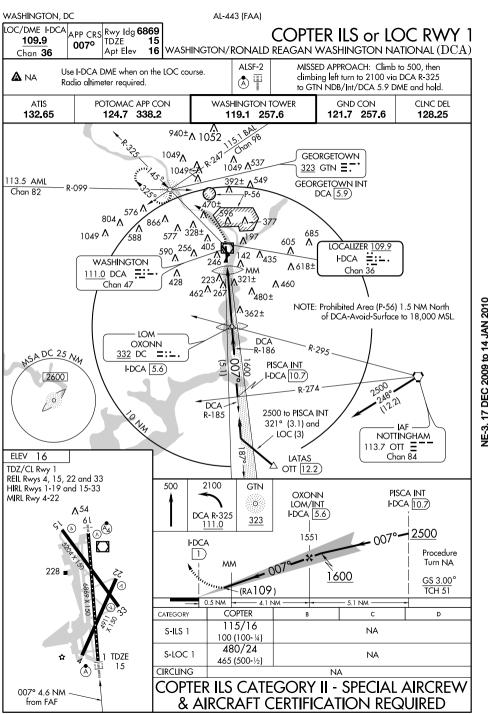
Rwy 24, climb on runway heading to 4500 before

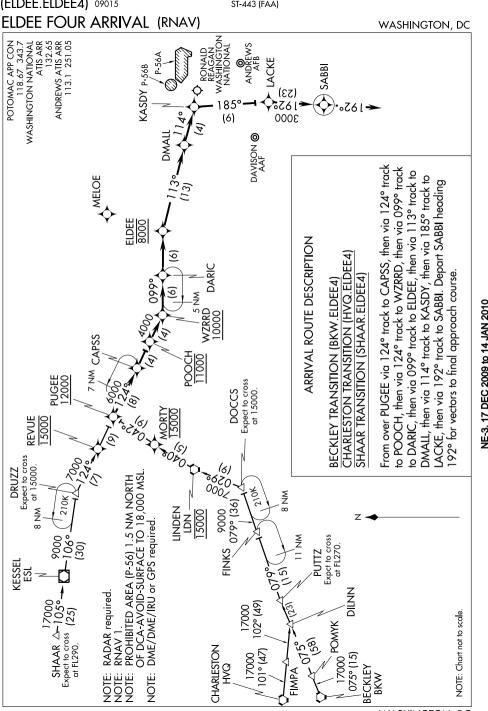
proceeding on course.

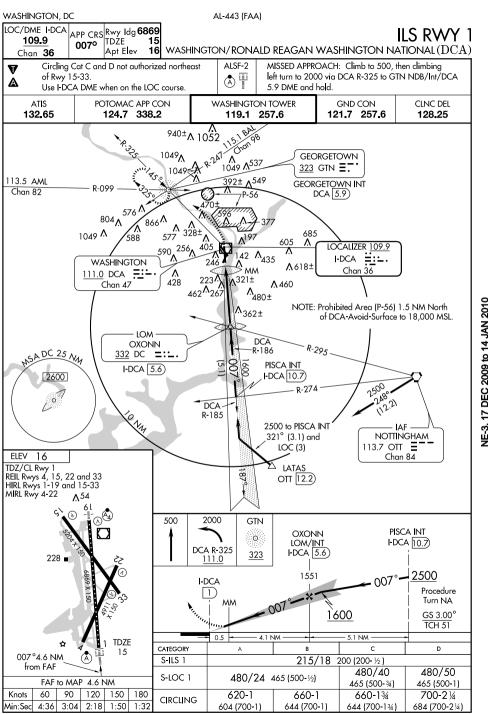
WASHINGTON / RONALD REAGAN WASHINGTON NATIONAL (DCA) AIRPORT DIAGRAM AL-443 (FAA) WASHINGTON, D.C. ATIS NOTE: PROHIBITED AREA (P-56) 1.5 NM NORTH OF DCA - AVOID SURFACE 132.65 TO 18,000 MSL. WASHINGTON TOWER **FIELD** FIFV 119.1 257.6 **ELEV** - 12 134.35 HELICOPTERS 15 **GND CON** 121.7 257.6 CLNC DEL VEHICLE LANE REMAIN 128.25 CLEAR WHILE TAXIING S **LEFT-HAND TURN-OFFS** NORTH FROM RWY 33 TO TAXIWAY K **HANGARS** PROHIBITED 38° 51.5′ N COMMUTER PARKING RWYS 1-19, 4-22, 15-33 PCN 57 F/B/X/T S110, D200, ST175, DT360 6 REPORTING POINTS NORTH PIER GATES 35-45 5202+150 TERMINAL C < CONTROL TOWER **ELEV** 228 ح5 /11 M REPORTING POINTS NE-3, 17 DEC 2009 to 14 JAN 2010 **CENTER PIER GATES 23-34** 1 (2)REPORTING POINTS W TERMINAL B< SOUTH PIER GATES 15-22 G 1,30 ASDE-X Surveillance System in use. **GATES 10-14** X 150 Pilots should operate transponders (3) with Mode C on all twys and rwys. - 38° 51.0′ N -NO TAXI NWS **ELEV** TERMINAL A GENERAL AVIATION 10 GATES 1-9 TERMINAL SOUTH **HANGARS** 10.70 (2P) **GENERAL** JANUARY 2005 AVIATION ANNUAL RATE OF CHANGE **PARKING** 036.38 0.0° W _ FIRE STATION RESTRICTED **HOLDING APRON 4** ATC VISIBILITY VEHICLE LANE REMAIN CLEAR WHILE TAXIING CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES. C READBACK OF ALL RUNWAY ELEV **ELEV** HOLDING INSTRUCTIONS IS REQUIRED. 12 12 38° 50.5′ N 77°03.0′W 77° 02.5′ W 77° 0'2.0' W

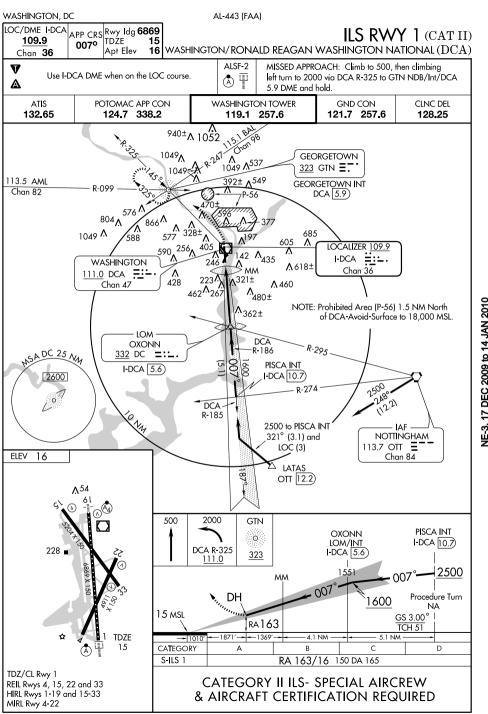






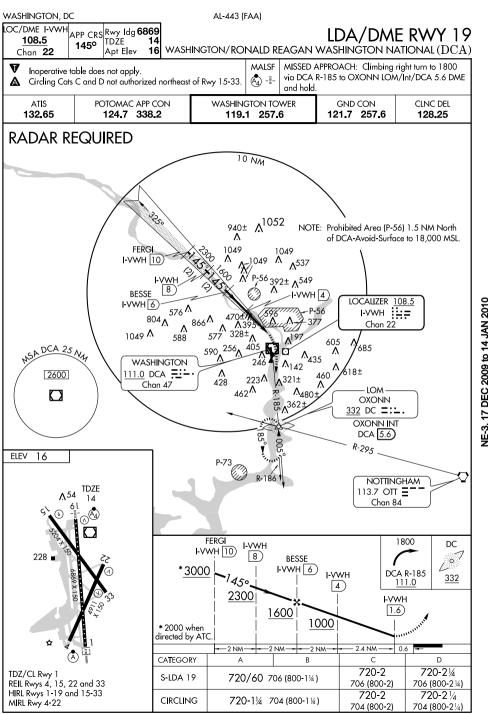


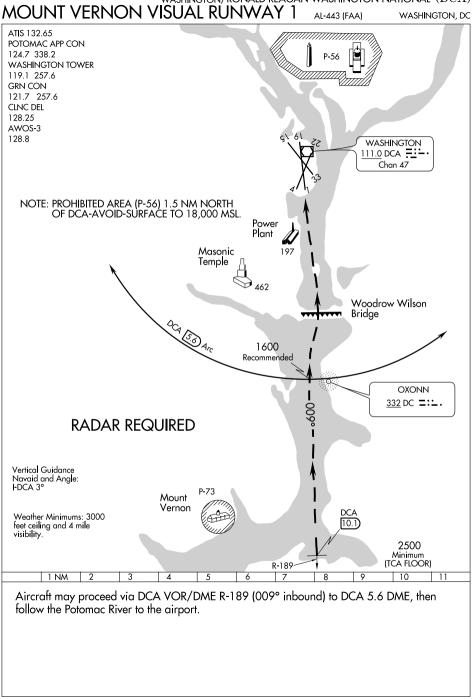


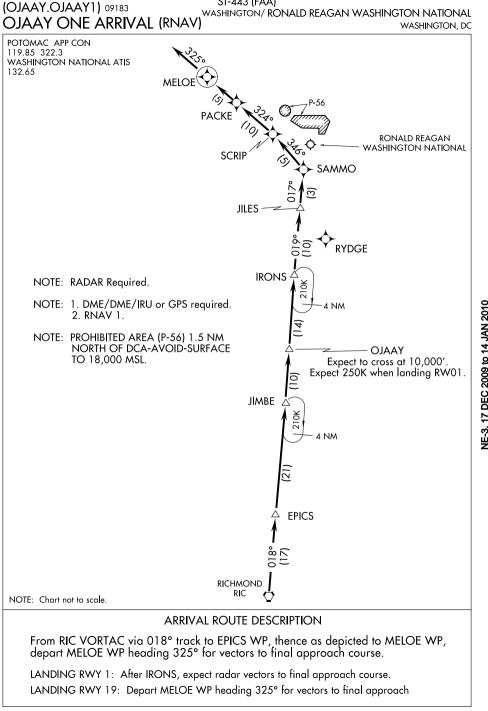


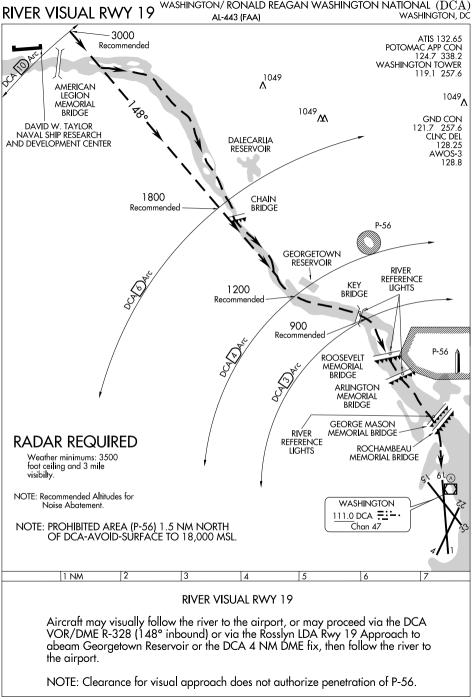
(IRONS.IRONS4) SI 443 (FAA) **IRONS FOUR ARRIVAL** WASHINGTON, DC 74-~ mmin (v POTOMAC APP CON WASHINGTON COLLEGE PARK 111.0 DCA =: --119.85 322.3 (DCA ARRIVALS ONLY) Linne// **FREEWAY** 128.35 270.275 (ADW ARRIVALS ONLY) Chan 47 ANDREWS AFB ATIS RONALD REAGAN 113.1 251.05 ANDREWS AFR WASHINGTON NATIONAL WASHINGTON NATIONAL ATIS R-10 \subseteq 132.65 R-289 SAMMO WASHINGTON EXECUTIVE/ N38°44.66′ W77°03.66′ HYDE FIELD POTOMAC AIRFIELD 8 NOTTINGHAM R-7.48 113.7 OTT NOTE: Aircraft use DCA ATIS to Chan 84 determine the direction **IRONS** of landing prior to IRONS N38°31.87' INT. (DCĂ only). OJAAY W77°06.37′ N38°17.56' W77°09.38′ TURBOJET VERTICAL NOTE: PROHIBITED AREA (P-56) 1.5 NM NORTH OF DCA-AVOID-SURFACE **NAVIGATION PLANNING** TO 18,000 MSL. INFORMATION (DCA only) Expect to cross at 10,000 feet 48 (and expect 250 kts in a North operation). JIMBE N38°07.68′ W77°11.44′ (%) (21) **EPICS** N37°47.15' **HARCUM** W77°15.82' 108.8 HCM ::--FLAT ROCK Chan 25 113.3 FAK ::-: Chan 80 P.3/5 RICHMOND 114.1 RIC ::.: Chan 88 N37°30.14′ - W77°19.22′ L-34-36, H-10-12 NOTE: Chart not to scale. RICHMOND TRANSITION (RIC.IRONS4): From over RIC VORTAC via RIC R-018 and DCA R-198 to IRONS INT. Thence.From over IRONS INT: Ronald Reagan Washington National Airport (DCA only): LANDING SOUTH: Then via DCA R-198 to SAMMÓ INT, heading for vectors to the final approach course. LANDING NORTH: Expect vectors to final approach course. All other airports: Expect vectors.

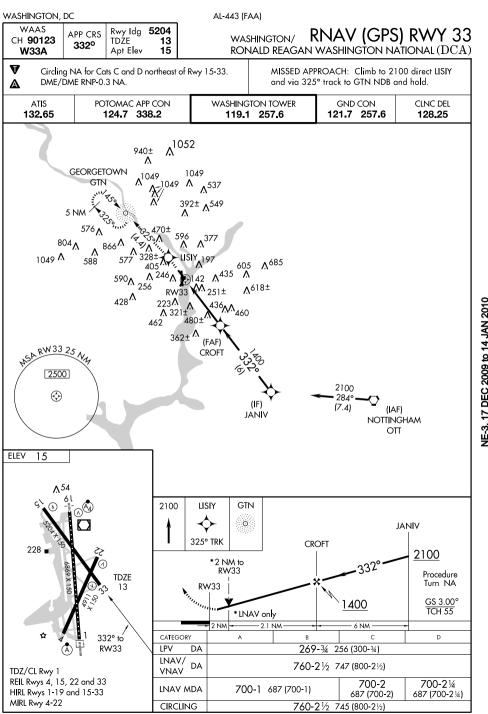
VE-3, 17 DEC 2009 to 14 JAN 2010

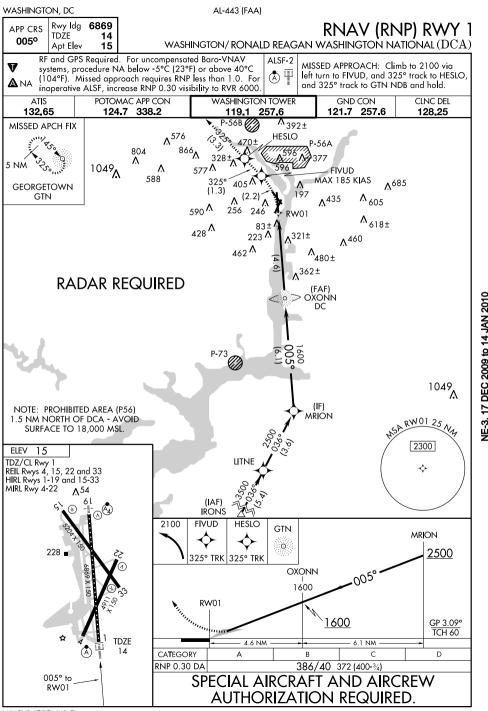




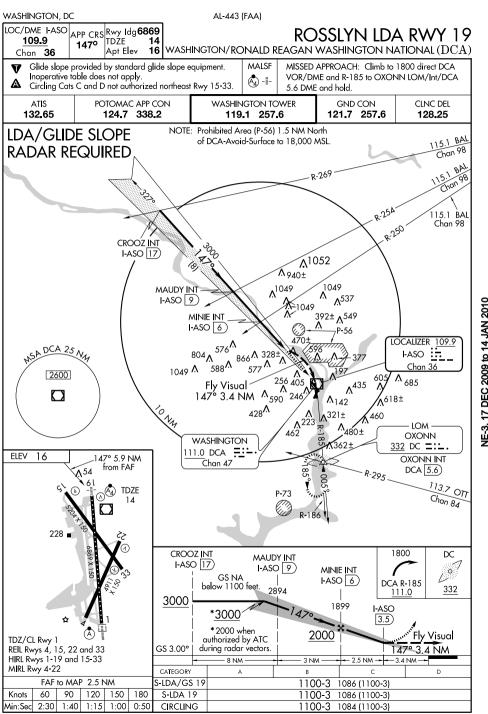


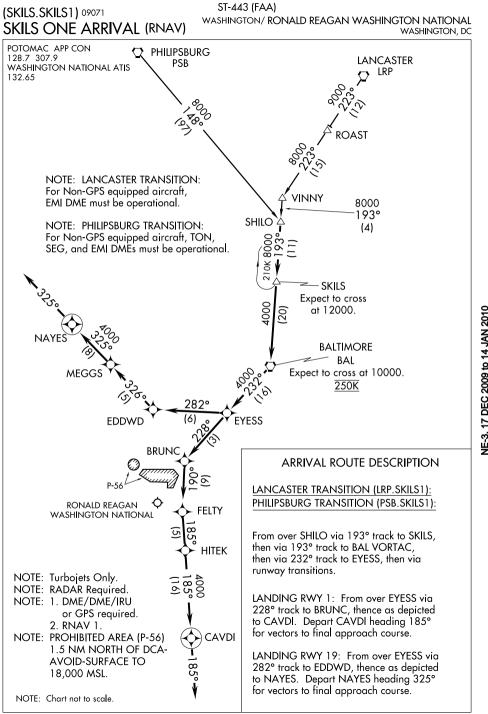


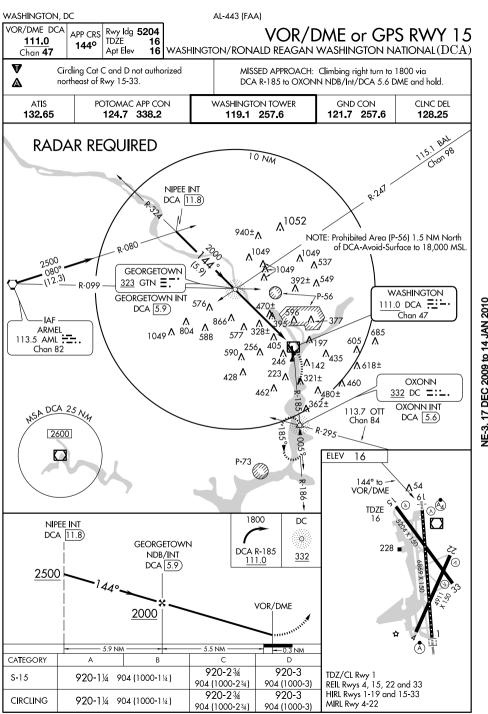


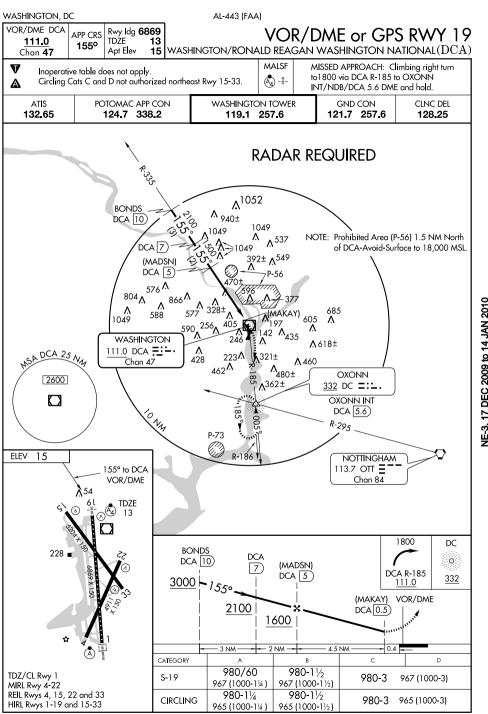


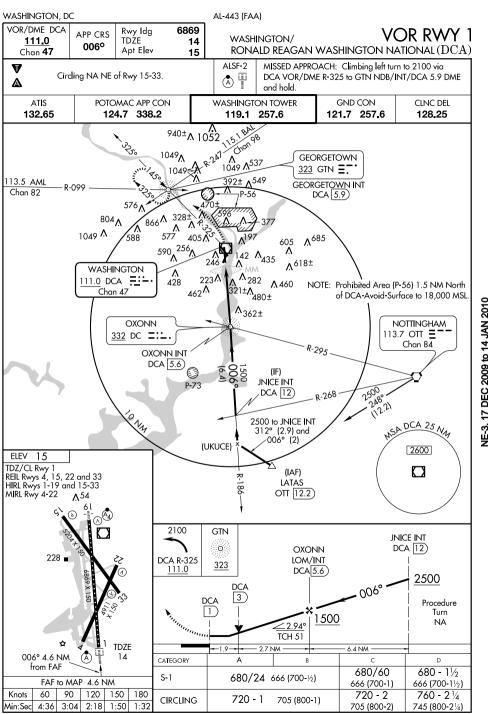
WASHINGTON, DC AL-443 (FAA) Rwy Ida 6869 RNAV (RNP) RWY 19 APP CRS 13 **TDZE** 184° 15 WASHINGTON/RONALD REAGAN WASHINGTON NATIONAL (DCA)Apt Elev MISSED APPROACH: Climbing RE. GPS, and RADAR REQUIRED. For uncompensated Baro-VNAV systems. MALSE V Procedure NA below -11°C (12°F) or above 49°C (120°F). Inoperative right turn to 1800 direct OXONN (Ā) -I-**A** NA table does not apply. When East Side VGSI inop, Procedure NA and hold. POTOMAC APP CON ATIS WASHINGTON TOWER GND CON CINC DFI 132,65 124.7 338.2 121.7 257.6 128,25 119.1 257.6 2500 3100 2500 3000 262° 260° 145° (2.6) (IAF) (15.1)1300 (8.8) (IAF) MAX 240 KIAS RAYEE 18) **KIVFY** BAITIMORE **BELTS** KUBEY 7000 3800 BELTS: BAL RAYEE: ^¹⁰⁵² 6900 Procedure NA 3000 Procedure NA 10000 V265 N Bnd V8 NW Bnd 940± 3000 BAL VORTAC: Procedure NA (2.7)V44-214 SE Bnd; NOTE: Prohibited Area (P-56) 1.5 NM CUKLI V268 SE Bnd North of DCA - Avoid Surface to 18,000 MSL. LICIP 4000 2500 3500 (2.1)**∧**1049 ۸¹⁰⁴⁹ (IF) ۸¹⁰⁴⁹ 3100 080° (9.9) 537 HIXIT ۸ **∧**¹⁰⁴⁹ **5**0 2500 **∧**¹⁰⁴⁹ VE-3, 17 DEC 2009 to 14 JAN 2010 ⁵⁴⁹∧ (FAF) JTSON ∧^{392±} (IAF) ARMEL AML P-56 8000 **FONVI** ۸⁵⁷⁶ 15A RW 19 25 Ny 866 596 2600 ۸⁸⁰⁴ JUBOL 328±^ ∧⁵⁸⁸ \bigcirc ۸¹⁰⁴⁹ 63± WIRSO 405 **∧** (0.6) FIROP ۸¹⁹⁷ 184° RW19 ۸²⁵⁶ **ELEV** 15 MISSED APCH FIX (0.5) ²⁴⁶∧ ∧⁵⁹⁰ 184° to ^54 RW19 OXONN Λ^{142} 428 TDZE 13 HIXIT **JTSON** 1800 OXONN SETOC 228 FONVI 2000 2500 < o > JUBOL 1450 1510 WIRSO 1450 1218 **FIROP** Procedure 933 424 Turn 234 1440 NA 2000 **RW19** 1840 GP 3.00° TCH 50 3.3 NM -- 1.5 - - 0.9 - - 0.9 -0.5 0.6 CATEGORY D RNP 0.11 DA 475-11/2 462 (500-11/2) TDZ/CL Rwy 1 REIL Rwys 4, 15, 22, and 33 HIRL Rwys 1-19 and 15-33 SPECIAL AIRCRAFT & AIRCREW MIRL Rwy 22 AUTHORIZATION REQUIRED

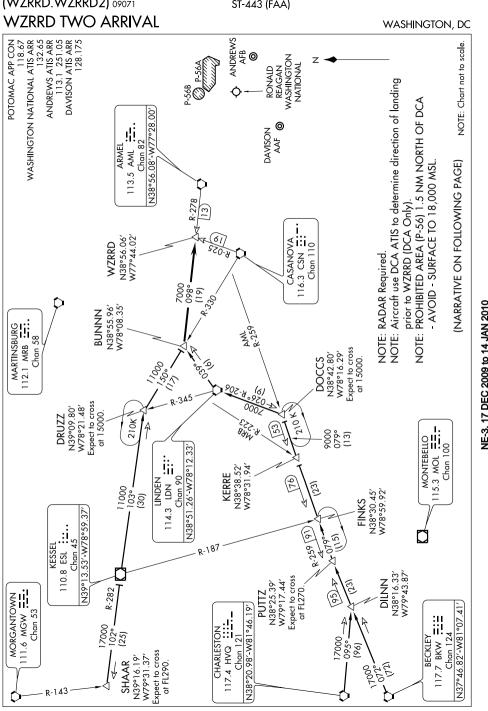




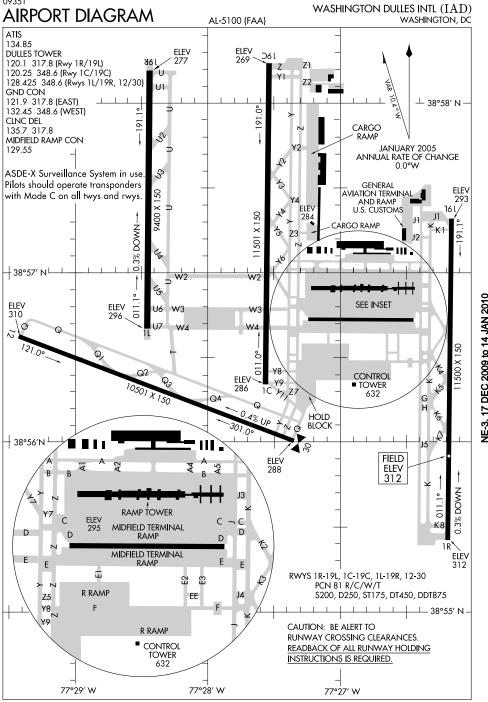


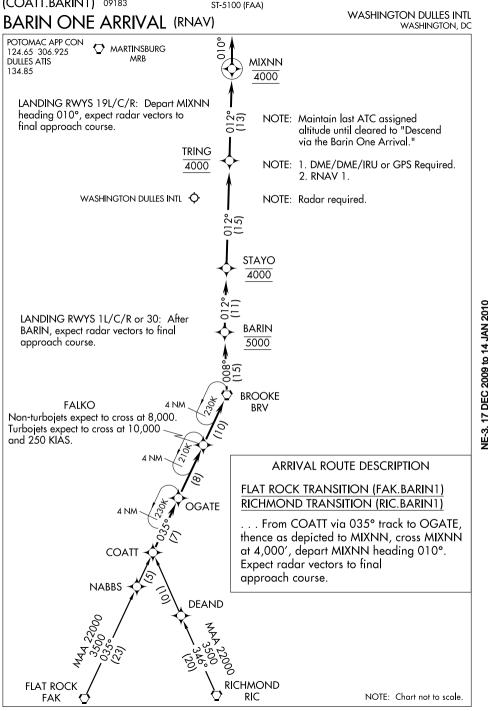






(WZRKD.WZRKDZ) 08045 ST-443 (FAA) WZRRD TWO ARRIVAL WASHINGTON, DC ARRIVAL ROUTE DESCRIPTION BECKLEY TRANSITION (BKW.WZRRD2): From over BKW VORTAC via BKW R-072 to PUTTZ INT, then via AML R-259 to DOCCS INT, then via LDN R-206 to LDN VORTAC, then via LDN R-039 to BUNNN INT, thence CHARLESTON TRANSITION (HVQ.WZRRD2): From over HVQ VORTAC via HVQ R-095 to DILNN INT, then via BKW R-072 to PUTTZ INT, then via AML R-259 to DOCCS INT, then via LDN R-206 to LDN VORTAC, then via LDN R-039 to BUNNN INT, thence SHAAR TRANSITION (SHAAR.WZRRD2): From over SHAAR INT via ESL R-282 to ESL VOR/DME, then via R-103 to DRUZZ INT, then via CSN R-330 to BUNNN. thence VE-3, 17 DEC 2009 to 14 JAN 2010 from over BUNNN INT via AML R-278 to WZRRD INT. Expect vectors to final approach course after WZRRD INT.





(CPTAL7.IAD) 08325 SL-5100 (FAA) WASHINGTON DULLES INTL (TAD) CAPITAL SEVEN DEPARTURE WASHINGTON, DC ATIS 134 85 WESTMINSTER CLNC DEL 135.7 317.8 117.9 EMI :--POTOMAC DEP CON GND CON NORTH Chan 126 121.9 317.8 (EAST) 125.05 350.2 **IFRES** N39°29.70′ - W76°58.71′ 132.45 348.6 (WEST) ∧ N39°38.57′ **DULLES TOWER** L-29-34-36, H-10-12 W77°27.30′ 120.1 317.8 (Rwy 1R/19L) L-29-34, H-10-12 **BALTIMORE** 120.25 348.6 (Rwy 1C/19C) 115.1 BAL :=:: 128.425 348.6 (Rwys 1L/19R, 12/30) Chan 98 △ BUFFR N39°10.26′ - W76°39.68′ SWANN N39°27.56′ N39°09.09′ L-29-34-36, H-10-12 W77°35.90' W76°13.73′ L-29-34, H-10-12 △ WOOLY L-34-36, H-10-12 N39°20.32' MARTINSBURG W77°02.19' 112.1 MRB ANNGE V268 L-29-34-36 V214-268 20 Chan 58 N39°02.17' R-104 W77°11.36′ N39°23 13′ - W77°50 90 L-29-34-36 R-271 L-29, H-10-12 **PALEO** *3*07° N39°01.68′ AML 79) R-290 R-091 W76°22.36′ L-29-34-36, H-10-12 1210 P-56 PEEGE ARMEL N38°58.24' 113.5 AML :--. W77°03.54′ NOTTINGHAM 9 Chan 82 L-29-34-36 113.7 OTT = N38°56.08′ Chan 84 W77°28.00' N38°42.35′ - W76°44.68′ L-29-34-36, H-10-12 L-29-34-36, H-10-12 4.33° BLUES △ N38°47.75' DAILY N38°33.63' W77°54.45' SMYRNA W76°43.52′ L-29-34, H-10-12 WASHINGTON 111.4 ENO =. FLUKY A L-29-34-36 111.0 DCA =:-• H-10-12 Chan 51 N38°30.39' Chan 47 N39°13.90′ - W75°30.96′ W77°43.75' N38°51.57′ - W77°02.19′ L-34, H-10-12 L-29-34-36, H-10-12 **HAFNR** L-29-34-36, H-10-12 N38°23.84' W77°33.98' LINDEN 114.3 LDN =: " L-29-34-36, H-10-12 Chan 90 N38°51.26′ - W78°12.33′ L-29-34, H-10-12 GORDONSVILLE POTOMAC DEP CON 115.6 GVE ... SOUTH Chan 103 126.65 350.2 N38°00.81′ - W78°09.18′ L-34-36, H-10-12 TAKE-OFF MINIMUMS Rwys 1C, 1R, 1L, 12, 19C, 19R, 19L, 30: STANDARD. NOTE: RADAR Required. (NARRATIVE ON FOLLOWING PAGE) NOTE: Chart not to scale.

VE-3, 17 DEC 2009 to 14 JAN 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 1C, 1L, 1R: Climb heading 011° or as assigned, Thence. . . . TAKE-OFF RUNWAY 12: Climb heading 121° or as assigned, Thence. . . .

TAKE-OFF RUNWAYS 19C, 19L, 19R: Člimb heading 191° or as assigned, Thence. . . .

TAKE-OFF RUNWAY 30: Climb heading 301° or as assigned, Thence. . . .

.... Expect radar vectors to filed/assigned route or depicted fix. Maintain 3000, expect clearance to filed altitude/flight level 10 minutes after departure.

SPECIAL INSTRUCTIONS: For appropriate departure control frequency, see graphic. Use frequency depicted within sector where your first Navaid/Fix/Route is located,

Rwy 1C: Tree 2814' from DER, 1030' left of centerline, 86' AGL/345' MSL.

TAKE-OFF OBSTACLES

or as assigned.

(CPTAL7.IAD) 08325

V

Rwy 1R: Post 12' from DER, 223' right of centerline, 8' AGL/294' MSL. Rwy 1L: Tower 1918' from DER, 680' left of centerline, 56' AGL/330' MSL

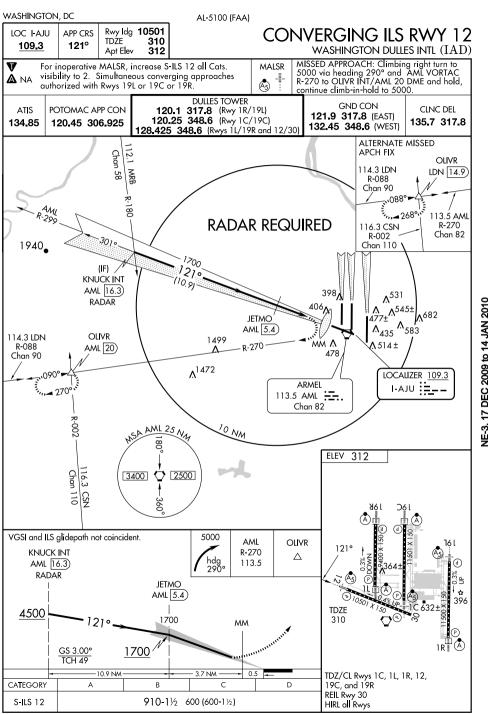
Rwy 12: Tree 520' from DER, 604' left of centerline, 28' AGL/307' MSL.

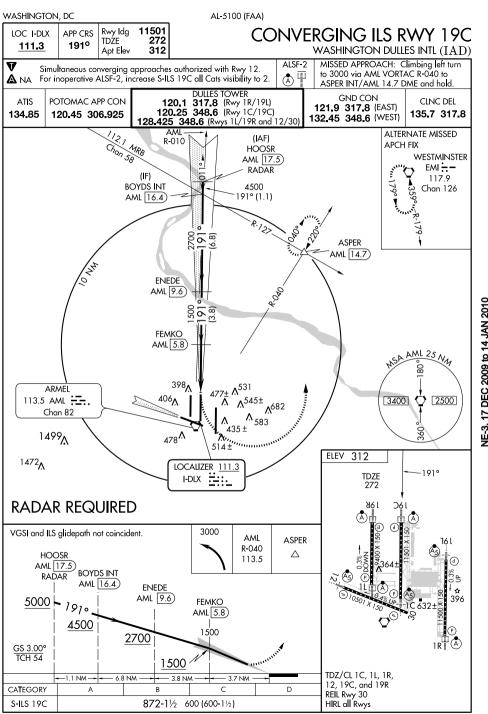
Rwy 30: Trees beginning 161' from DER, 520' left of centerline, up to 57' AGL/396' MSL.

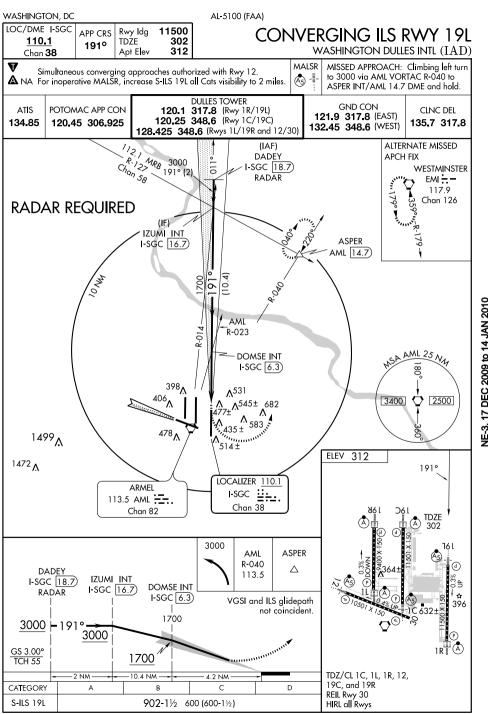
Trees beginning 532' from DER, 600' right of centerline, up to 64' AGL/383' MSL.

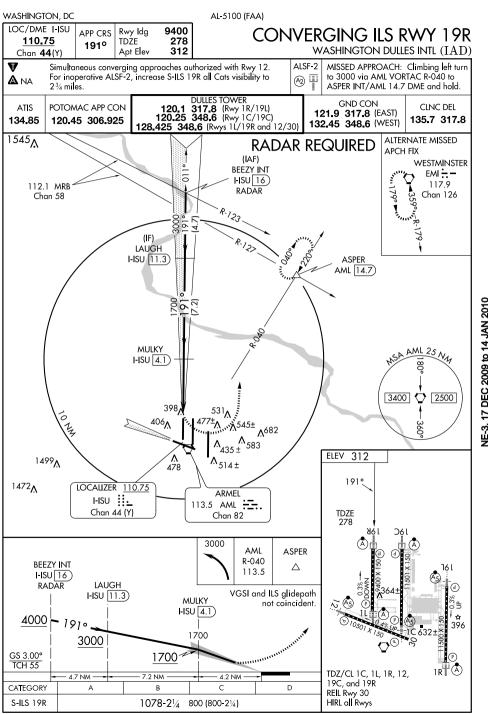
(COATT.COATT4) 09183 ST-5100 (FAA) COATT FOUR ARRIVAL WASHINGTON, DC POTOMAC APP CON LEESBURG EXECUTIVE NORTH 125.8 306.925 Ò SOUTH 124.65 306.925 WASHINGTON **DULLES ATIS 134.85** DULLES O INTL ARMEL MANASSAS RGNL/ 113.5 AML HARRY P. DAVIS FIELD 🔥 Chan 82 N38°56.08' - W77°28.00' BARIN R-104. N38°35.18' - W77°21.83' TURBOJET VERTICAL NAVIGATION CASANOVA PLANNING INFORMATION 116.3 CSN **□:** Chan 110 Expect to cross at 5,000'. 2400 007° (15) **BROOKE** 114.5 BRV Chan 92 N38°20.18′ - W77°21.17 **FALKO** N38°11.11′ - W77°26.56′ TURBOJET VERTICAL NAVIGATION USE FAK R-031 TO BRV, PLANNING INFORMATION BRV R-214 UNUSEABLE. Expect to cross at 10,000' at 250 KT. **OGATE** N38°03.48' W77°31 07' COATT -N37°57.49' W77°34.61′ NABBS DEAND N37°52.60′ N37°48.42′ W77°29.48′ W77°37.49′ R-050 FLAT ROCK RICHMOND 113.3 FAK ::-114.1 RIC :-. Chan 80 Chan 88 N37°31.71′ - W77°49.69′ N37°30.14′ - W77°19.22′ L-36, H-10-12 L-34-36, H-10-12 NOTE: Chart not to scale. FLAT ROCK TRANSITION (FAK.COATT4): From over FAK VORTAC via FAK R-031 to COATT INT. Thence RICHMOND TRANSITION (RIC.COATT4): From over RIC VORTAC via RIC R-345 to COATT INT. Thence From over COATT INT via FAK R-031 to BRV VORTAC, then from over BRV VORTAC via BRV R-007 to BARIN INT. Expect radar vectors to final approach course after BARIN INT.

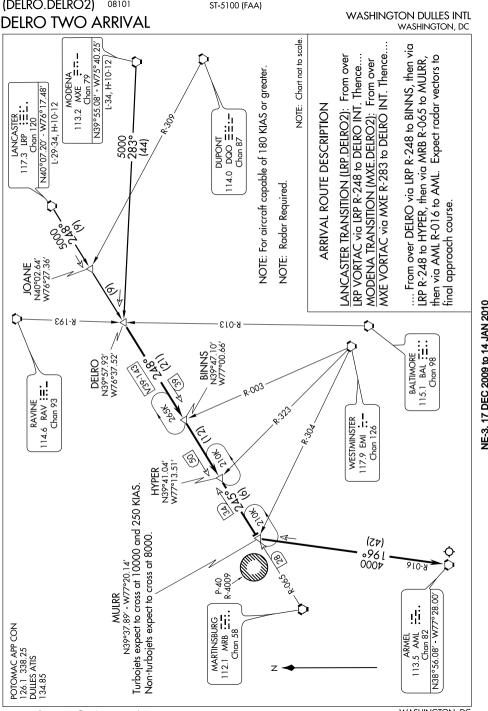
VE-3, 17 DEC 2009 to 14 JAN 2010

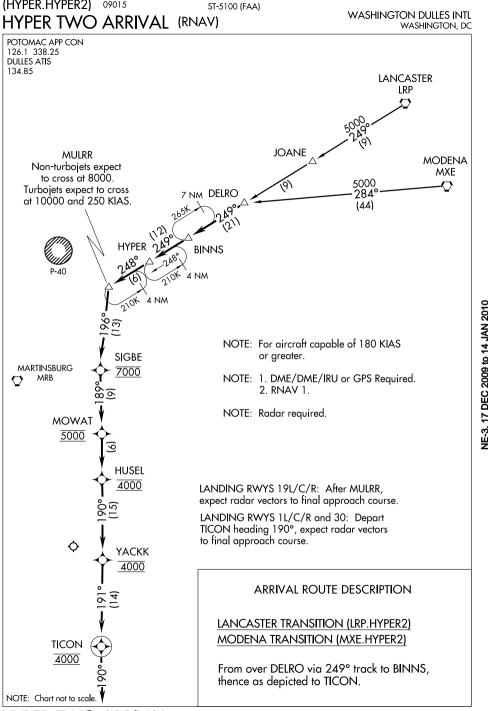


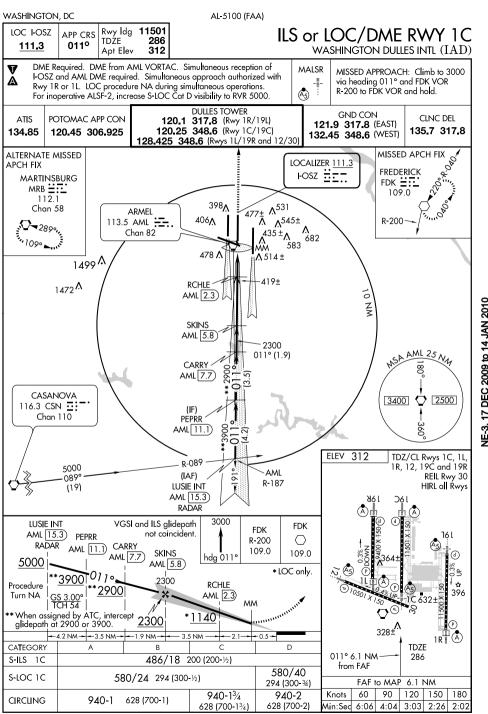


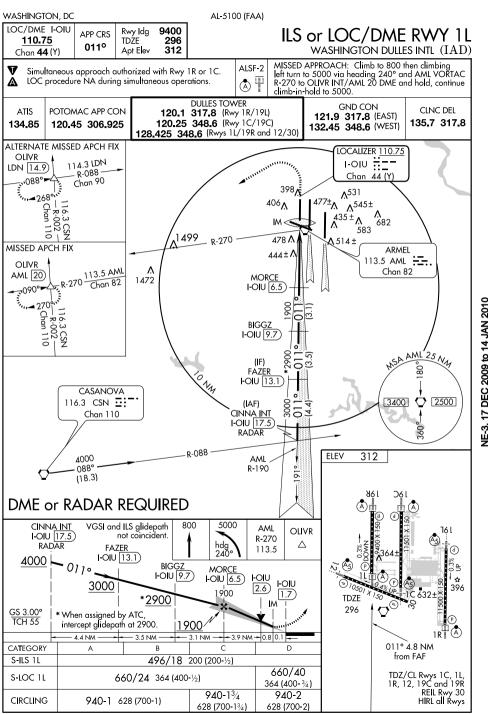


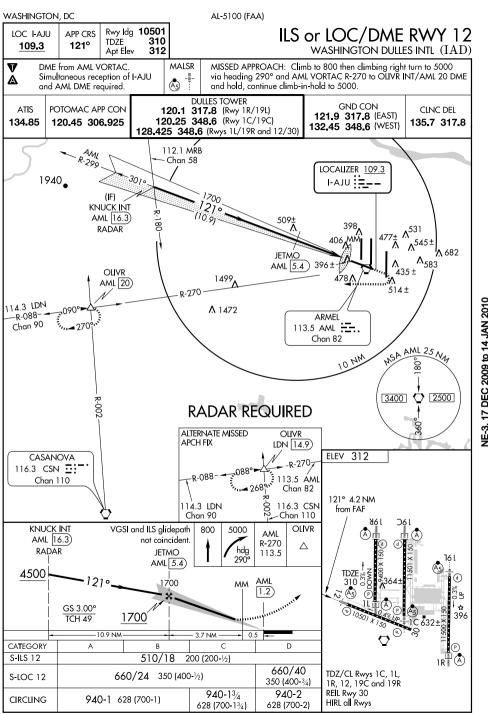


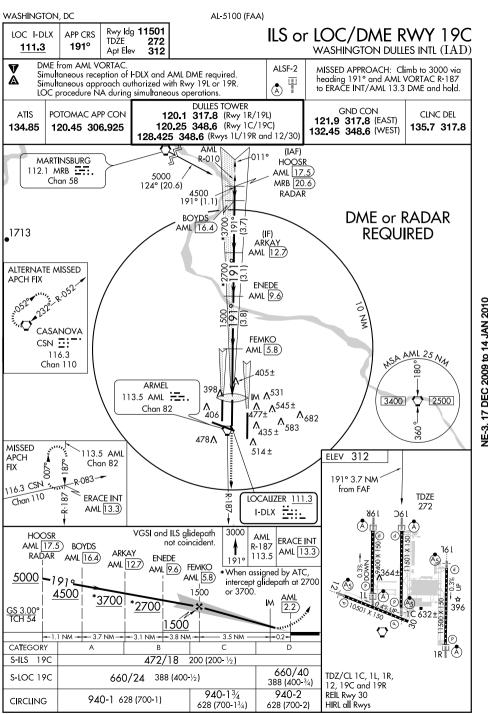




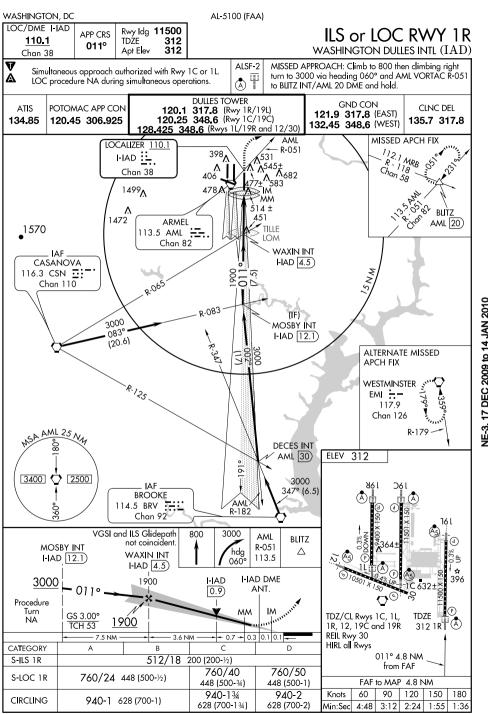


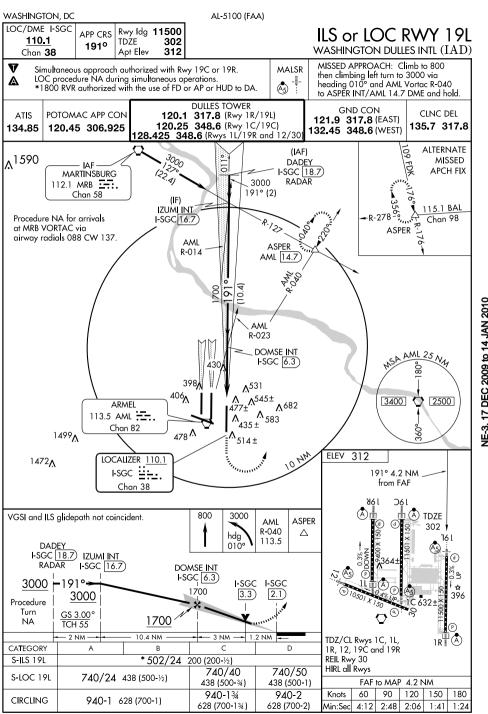


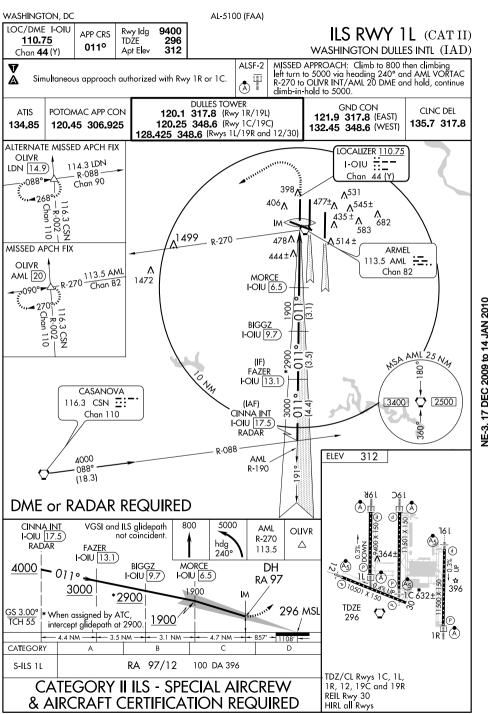


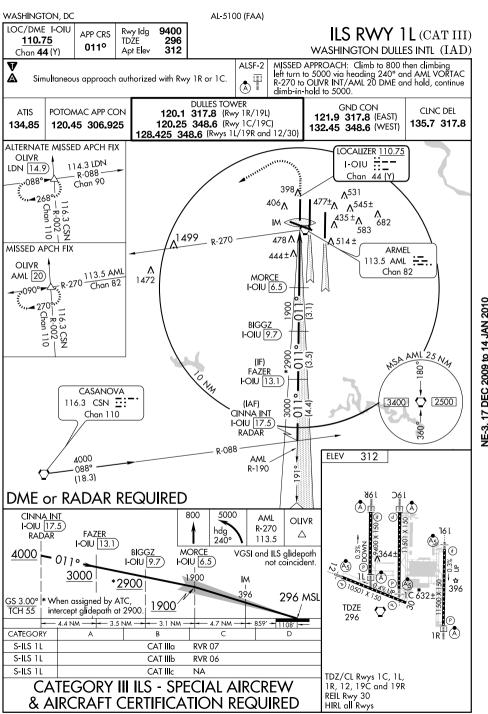


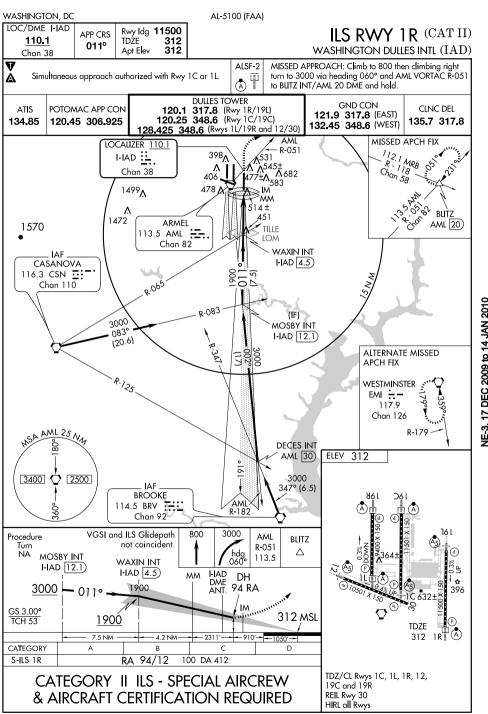
WASHINGTON, DC AL-5100 (FAA) LOC/DME I-ISU Rwy Ida 9400 ILS or LOC/DME RWY 19R APP CRS 110.75 TDŹE 278 191° WASHINGTON DULLES INTL (IAD) Apt Elev 312 Chan 44 (Y) ALSF-2 MISSED APPROACH: Climb to 800 then climbing right Simultaneous approach authorized with Rwy 19C or 19L. turn to 5000 via AML VORTAC R-270 to OLIVR INT/ ▥ LOC procedure NA during simultaneous operations. AML 20 DME and hold, continue climb-in-hold to 5000. DULLES TOWER GND CON POTOMAC APP CON ATIS 120.1 317.8 (Rwy 1R/19L) CLNC DEL 121.9 317.8 (EAST) 120.25 348.6 (Rwy 1C/19C) 134.85 120.45 306.925 135.7 317.8 132.45 348.6 (WEST) 128.425 348.6 (Rwys 1L/19R and 12/30) ALTERNATE MISSED APCH FIX (IAF) 19₀₎ **OLIVR** MARTINSBURG BEEZY INT LDN 14.9) 112.1 MRB --: I-ISU 116 R-088-114.3 LDN 088° Chan 58 MRB 19.6 Chan 90 RADAR 3000 1**91** 7.7 (IF) LAUGH I-ISU 11.3 DME or RADAR 220 1**6**1 **REQUIRED** VE-3, 17 DEC 2009 to 14 JAN 2010 CLAYY I-ISU 7.2 6 25 Ny LOCALIZER 110.75 MULKY 1940 I-ISU I-ISU 4.1 Chan 44 (Y) 461/ 3400 2500 398 ^⁵³¹ ARMEL ^545± 406A 113.5 AML :-477± Chan 82 OLIVR 583 ۸_{435 ±} AML 20) 478 Λ R-270 1499 **∧**514± R-270 114.3 LDN **ELEV** 312 191° 4.3 NM Chan 90 1472 ^A from FAF CSN 116.3 Chan 110 800 5000 VGSI and ILS glidepath BEEZY INT AML OLIVR TDZE I-ISU [16] not coincident. 1 6K **J6**L R-270 RADAR Λ 278 LAUGH 113.5 I-ISU 11.3 <u>4000</u> 1910 CLAYY MULKY I-ISU DME 16 L I-ISU 7.2 I-ISU 4.1) **ANTENNA** 3000 I-ISU (d) 1700 I-ISU 1.0) IM [0.2] *2700 0.3% UP GS 3.00° * When assigned by ATC, TCH 55 1700 intercept glidepath at 2700. 396 4.7 NM -3.1 NM CATEGORY S-ILS 19R 478/18 200 (200-1/2) 720/40 720/50 1R[™](Ā) TDZ/CL Rwys 1C, 1L, 1R, 12, 19C and 19R S-LOC 19R 720/24 442 (500-1/2) 442 (500-3/4) 442 (500-1) 940-13/4 REIL Rwy 30 940-2 CIRCLING 940-1 628 (700-1) HIRL all Rwys 628 (700-13/4) 628 (700-2)

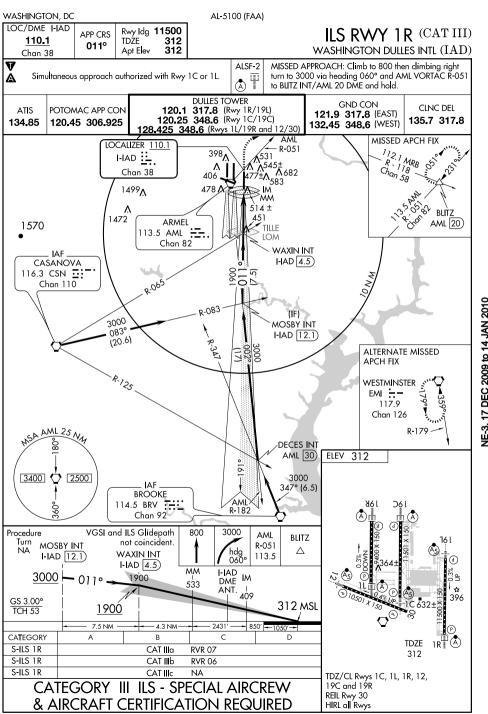


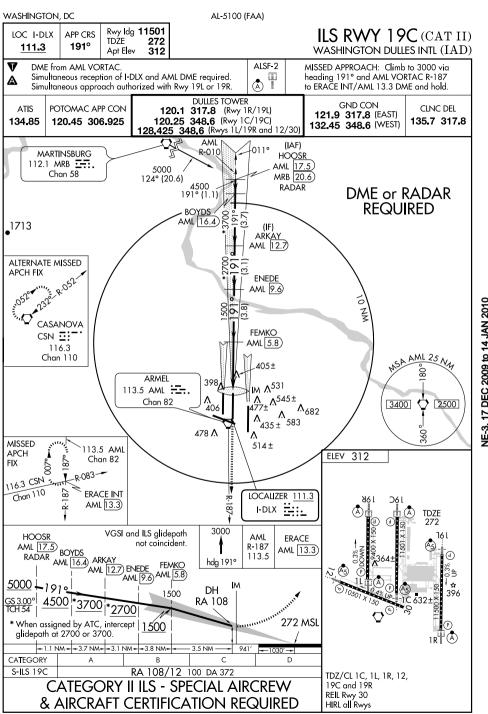


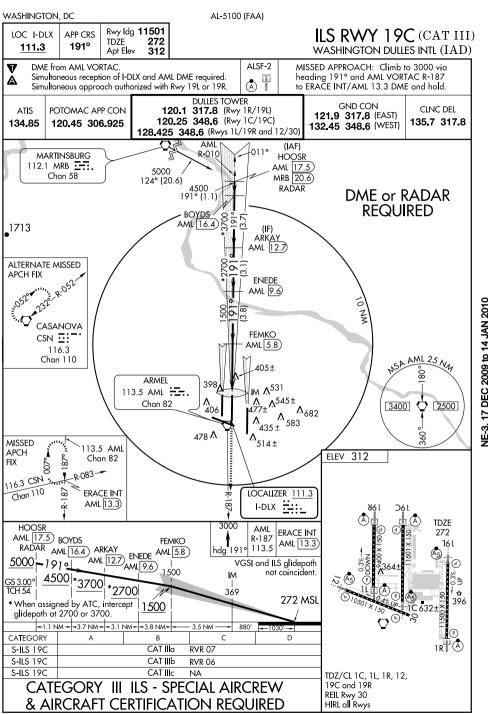


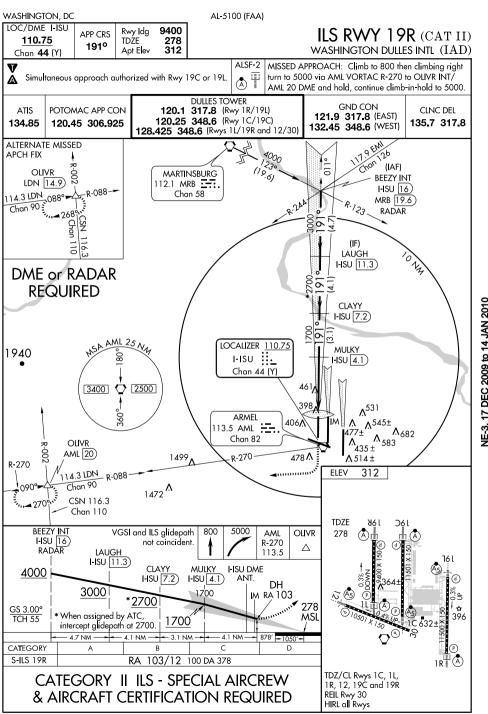


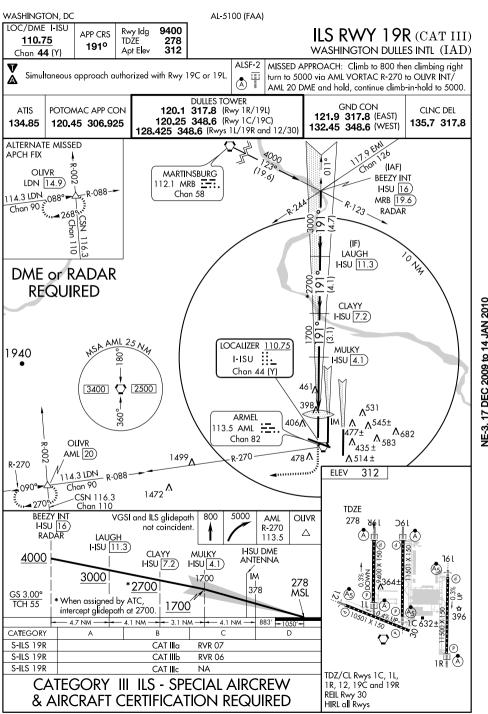


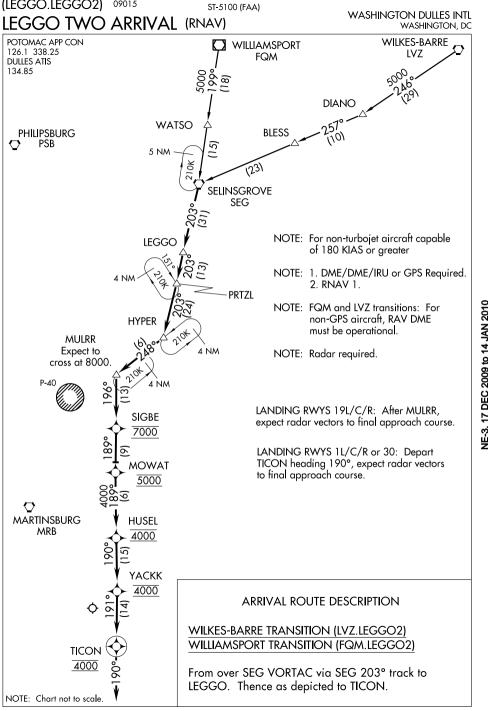


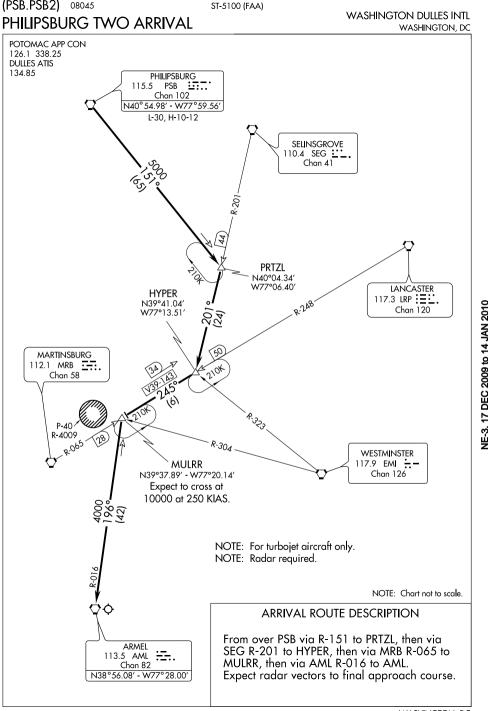




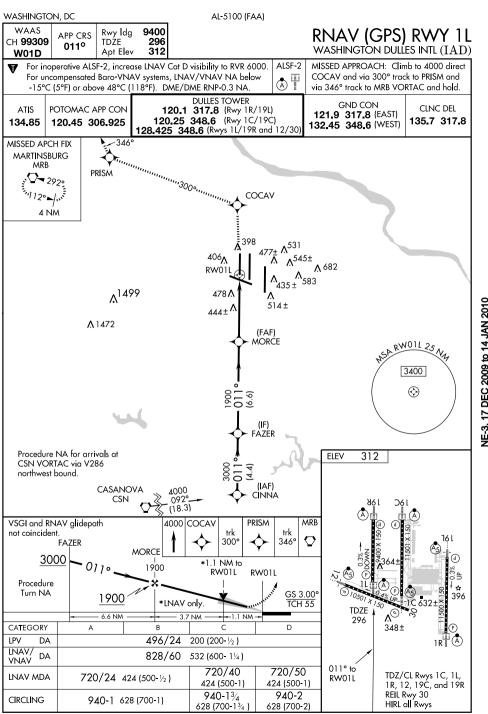


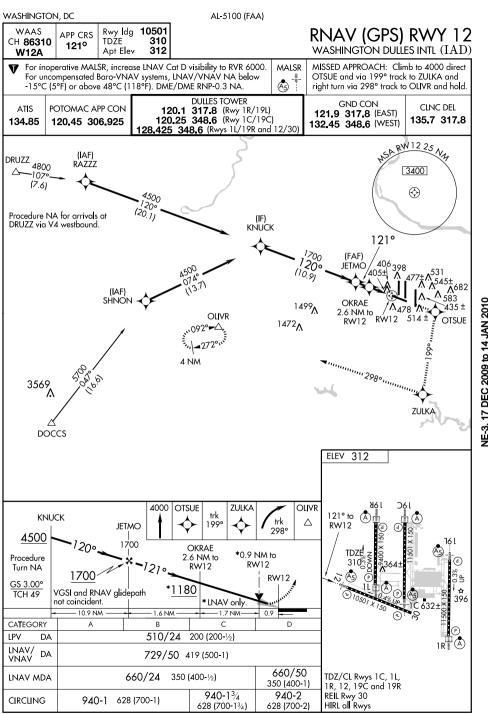


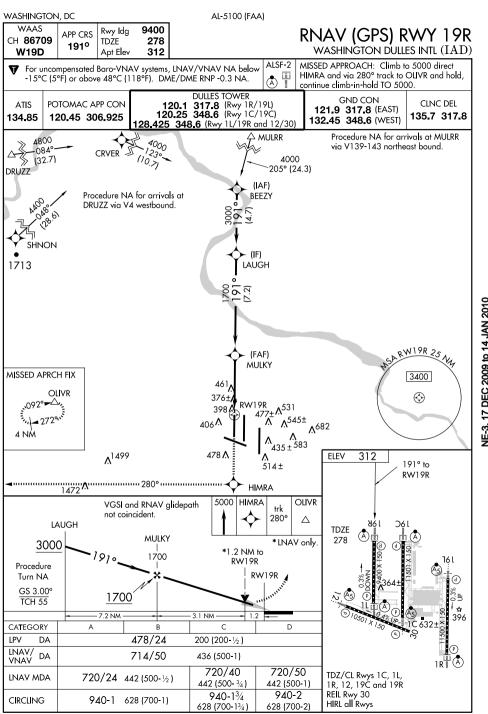


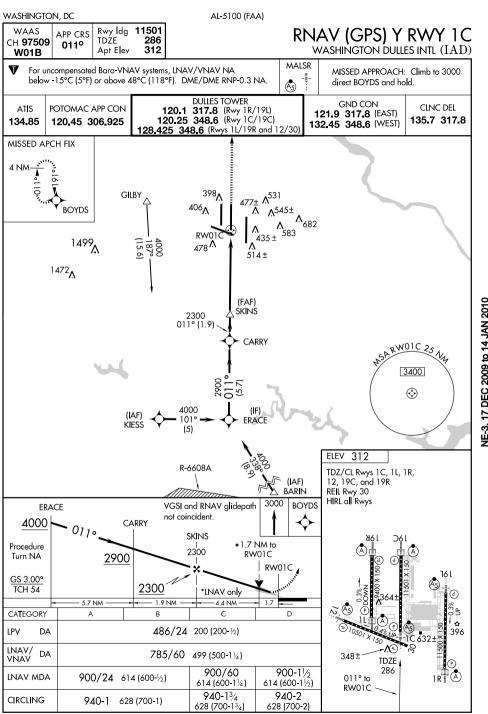


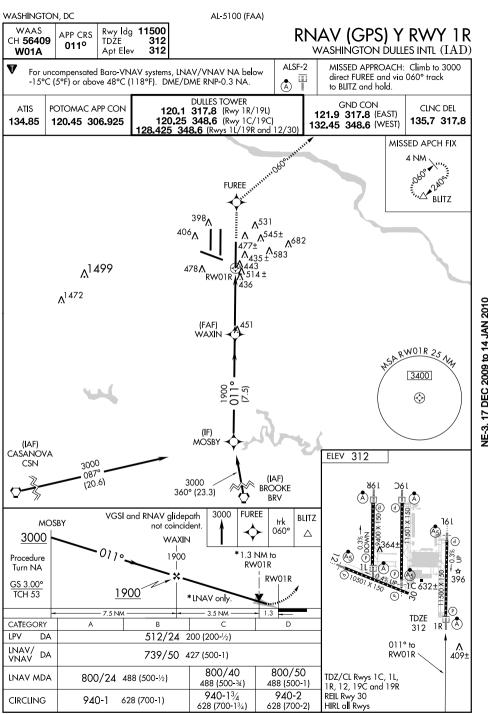
(PRIZL.PRIZL3) ST-5100 (FAA) WASHINGTON DULLES INTL PRTZL THREE ARRIVAL (RNAV) WASHINGTON, DC POTOMAC APP CON 126.1 338.25 **PHILIPSBURG DULLES ATIS PSB** 134.85 PRTZL 2104 NOTE: For turboiet aircraft only. 4 NM NOTE: 1. DME/DME/IRU or GPS Required. 2. RNAV 1. NOTE: Radar required. NOTE: For non-GPS equipped aircraft, EMI and RAV DMEs must be operational. P-40 2704 VE-3, 17 DEC 2009 to 14 JAN 2010 **MULRR** Expect to cross at 10000 and 250 KIAS. LANDING RWYS 19L/C/R: After MULRR, expect radar vectors to final approach course. SIGBE 7000 MARTINSBURG MOWAT 5000 HUSEL 4000 LANDING RWYS 1L/C/R and 30: Depart TICON heading 190°, expect radar vectors to final approach course. YACKK 4000 ARRIVAL ROUTE DESCRIPTION TICON From over PSB via 151° track to PRTZL, 4000 thence as depicted to TICON. Depart TICON heading 190°. Expect radar vectors to final approach course. NOTE: Chart not to scale.

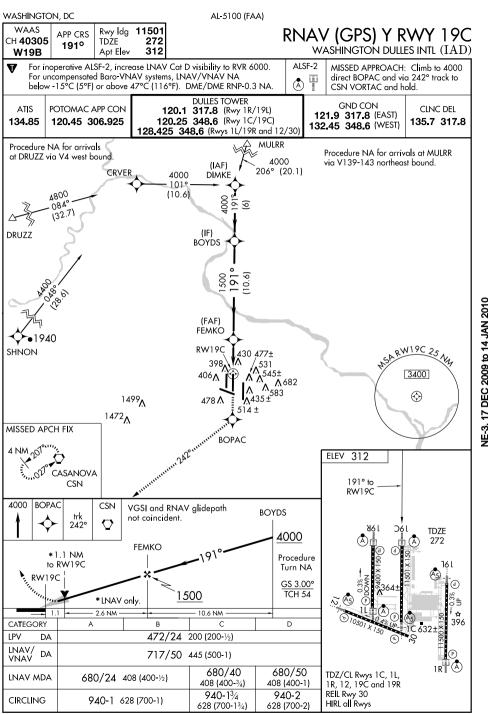


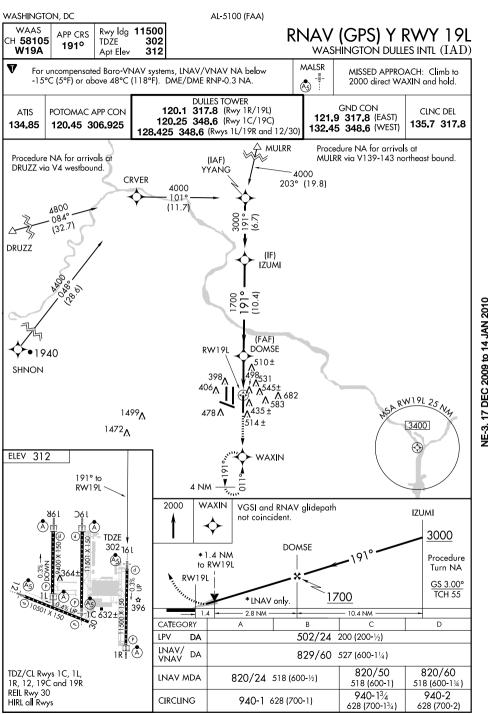


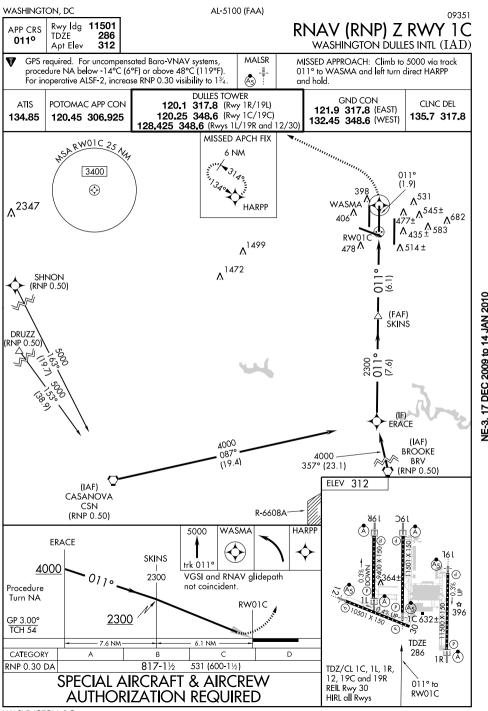


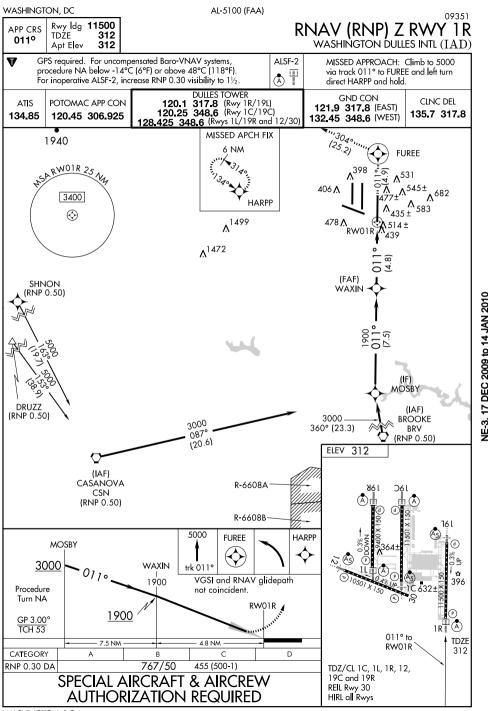


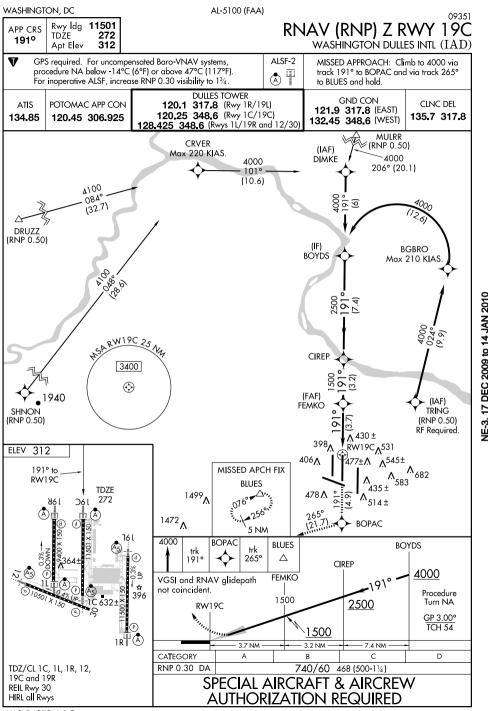


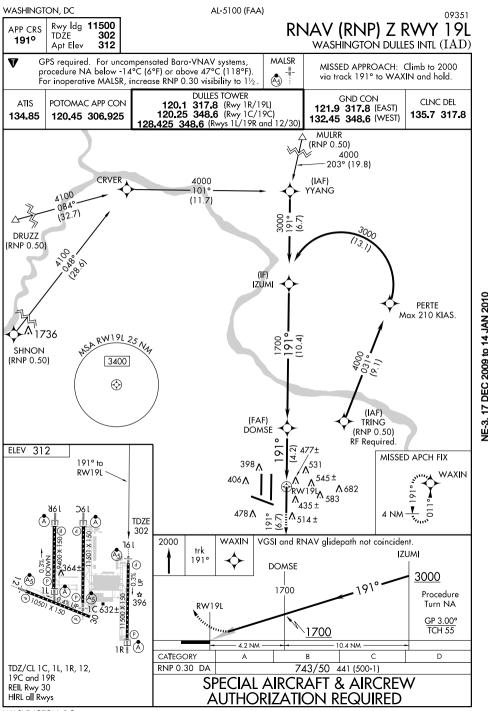


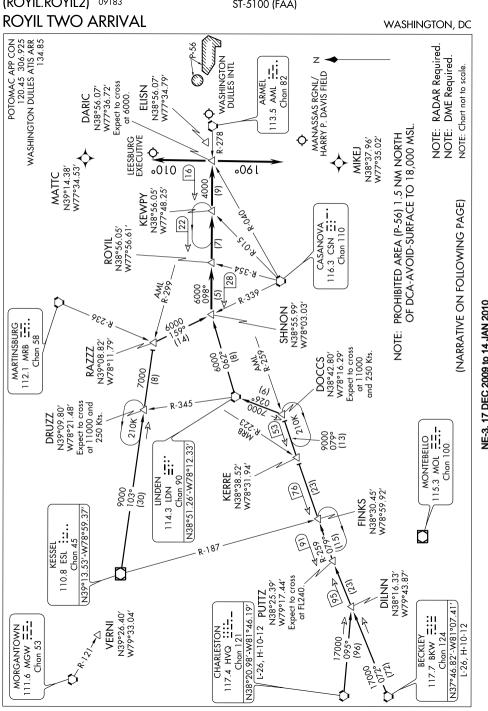












ROYIL TWO ARRIVAL

ARRIVAL ROUTE DESCRIPTION

BECKLEY TRANSITION (BKW.ROYIL2): From over BKW VORTAC via BKW R-072 to PUTTZ INT, then via AML R-259 to DOCCS INT, then via LDN R-206 to LDN VORTAC, then via LDN R-062 to SHNON INT, thence

CHARLESTON TRANSITION (HVQ.ROYIL2): From over HVQ VORTAC via HVQ R-095 to DILNN INT, then via BKW R-072 to PUTTZ INT, then via AML R-259 to DOCCS INT, then via LDN R-206 to LDN VORTAC, then via LDN R-062 to SHNON INT, thence

KESSEL TRANSITION (ESL.ROYIL2): From over ESL VOR/DME via ESL R-103 to RAZZZ INT, then via CSN R-339 to SHNON INT, thence

. . . . from over SHNON INT via AML R-278 to ROYIL INT, then via AML R-278 to KEWPY INT, then via AML R-278 to DARIC INT.

LANDING SOUTH (IAD ONLY): Depart DARIC heading 010° for vectors to final approach course.

LANDING NORTH (IAD ONLY): Depart DARIC heading 190° for vectors to final

approach course.

(SEG.SEG3) 08101 ST-5100 (FAA) WASHINGTON DULLES INTL SELINSGROVE THREE ARRIVAL WASHINGTON, DO POTOMAC APP CON 126.1 338.25 DIANO MILTON **DULLES ATIS** 109.2 MIP ... WILLIAMSPORT N41°00.03' 134.85 114.4 FQM **∺≣:**-W76°13.56 Chan 29 Chan 91 N41°20.31′ - W76°46.49′ L-30. H-10-12 R-289 **PHILIPSBURG** WATSO PSB WILKES-BARRE N41°02.77′ Chan 102 111.6 LVZ :::::: W76°50.00′ Chan 53 N41°16.37′ - W75°41.37′ **BLESS** L-33. H-10-12 N40°56.35' W76°25.21′ SELINSGROVE 110.4 SEG ::: Chan 41 N40°47.45' - W76°53.04' **LEGGO** N40°17.27' W77°02.43′ VE-3, 17 DEC 2009 to 14 JAN 2010 **PRTZL** LANCASTER N40°04.34' **HYPER** 117.3 LRP :**Ξ**∷. W77°06.40′ N39°41.04′ Chan 120 R-248 W77°13.51′ MARTINSBURG 112.1 MRB NOTE: For non-turbojet aircraft capable 2704 Chan 58 of 180 KIAS or greater. NOTE: Radar required. P-40 R-4009 (13) WESTMINSTER 117.9 EMI :--Chan 126 **MULRR** N39°37.89′ - W77°20.14′ Expect to cross at 8000 and 250 KIAS. NOTE: Chart not to scale. WILKES-BARRE TRANSITION (LVZ.SEG3): R-016 From over LVZ VORTAC via LVZ R-246 and SEG R-075 to SEG VORTAC. Thence.... WILLIAMSPORT TRANSITION (FQM.SEG3): From over FQM VOR/DME via FQM R-198 and SEG R-017 to SEG VORTAC. Thence.... ARMELFrom over SEG via SEG R-201 to LEGGO, then via 113.5 AML :--. Chan 82 SEG R-201 to PRTZL, then via SEG R-201 to HYPER, N38°56.08' - W77°28.00' then via MRB R-065 to MULRR, then via AML R-016 to AML. Expect radar vectors to final approach course.

